

FILE NOTATIONS

Entered in MID File
Location Map Plotted
Card Indexed

Checked by Chief
Approval Letter
Disapproval Letter

PMB
12-21-73

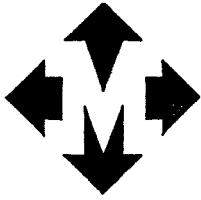
COMPLETION DATA:

Date Well Completed *6-21-74*
OW..... WW..... TA.....
GW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs ()
E..... I..... Dual I Lat..... GR-N..... Micro.....
BNC Sonic CR..... Sonic.....
CSLog..... CCLog..... Others.....



mapco
INC.

PRODUCTION DIVISION

December 19, 1973

State Of Utah
Department of Natural Resources
Division of Oil and Gas Commission
1588 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Mr. Paul Burchell

Re: MAPCO, Olsen No. 1-27
NE NE Section 27, T. 1 S., R. 4 W.,
and
MAPCO, Birch No. 1-25
SW NE Section 25, T. 1 S., R. 5 W.,
Duchesne County, Utah

Gentlemen:

Enclosed are three (3) copies each of our Application for Permit to Drill and Survey Plat for the above captioned MAPCO, Olsen No. 1-27 well. We are also enclosing three (3) copies of Application for Permit to Drill for MAPCO, Birch No. 1-25. Uintah Engineering & Land Surveying, Vernal, has been instructed to mail you three (3) copies of the Survey Plat for the MAPCO, Birch No. 1-25 directly from their office to facilitate processing this application.

✓ Our \$25,000 blanket bond No. 8055-97-09, dated October 11, 1972, with certified copy of Power of Attorney attached, is on file with your office. We trust that everything is in order, and if it is not, please let us know.

Very truly yours,

MAPCO INC.

L. B. McDade, Geologist

LBM:awm

Enclosures

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒GAS WELL ☐OTHER ☐SINGLE ZONE ☒MULTIPLE ZONE ☐

2. NAME OF OPERATOR

MAPCO Inc., et al

3. ADDRESS OF OPERATOR

Suite 320 Plaza West
1537 Avenue D, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface NW SW NE (1488' FNL & 1509' FEL) Section 25, T. 1 S., R. 5 W.,

U.S.M., Duchesne County, Utah

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5-1/2 miles west of Altamont

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

1488'

16. NO. OF ACRES IN LEASE

249

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

--

19. PROPOSED DEPTH

16,400'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6867' Ungraded Ground

22. APPROX. DATE WORK WILL START*

January 25, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	3500'	As required
8-3/4"	7-5/8"	Mixed	14175'	As required
6-1/2"	5-1/2"	23#	16000'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including B.O.P. assemblies: Hydril 10" 1500 Series, Cameron QRC 10" 1500 series, Cameron double gate SS 10" 1500 series, and additional as required to total depth. Other equipment will include (1) a recording pit level indicator with warning device, (2) mud volume measuring device, and (3) a mud return indicator.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Edwin J. Milt

Manager of Operations
Northern District

DATE December 19, 1973

(This space for Federal or State office use)

PERMIT NO.

43013-30285

APPROVAL DATE

APPROVED BY

TITLE

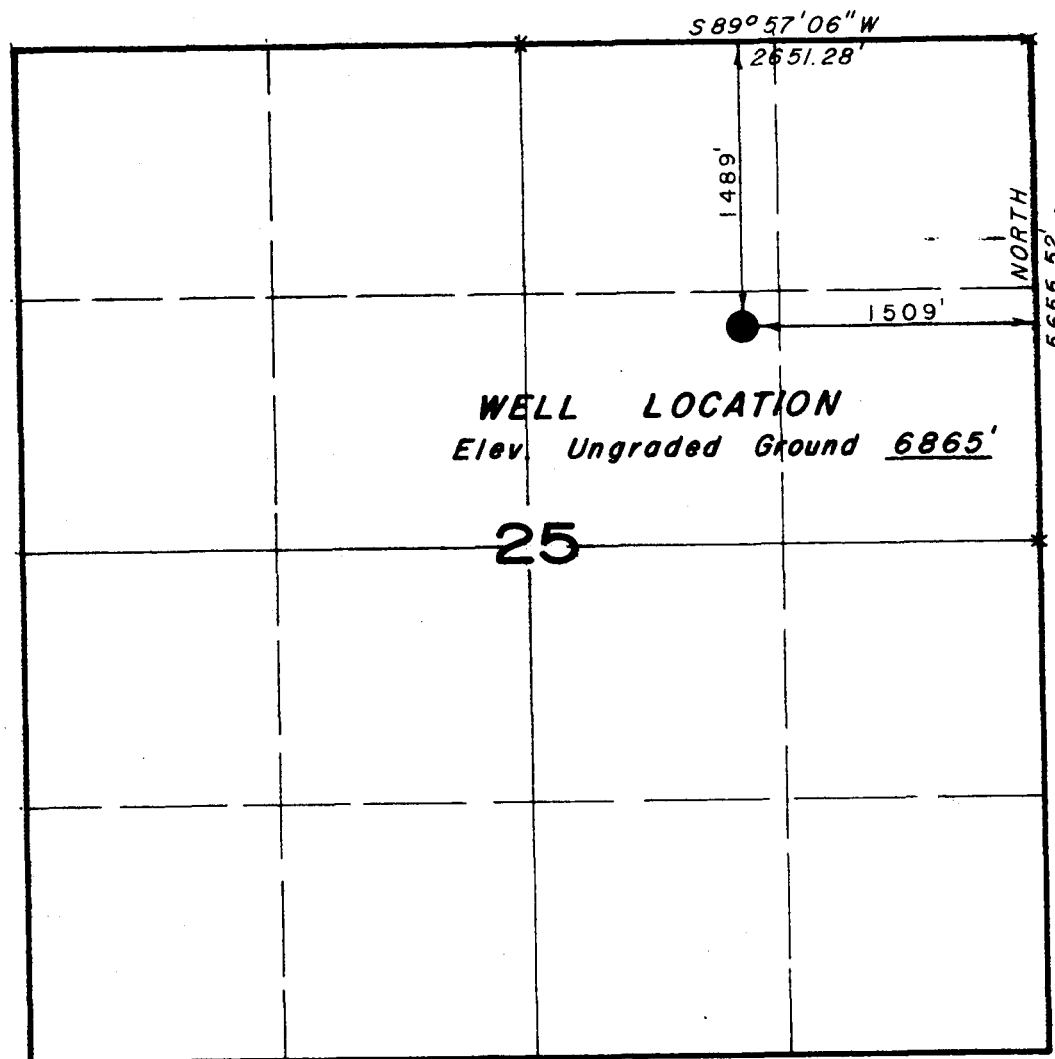
DATE

CONDITIONS OF APPROVAL, IF ANY:

T1S, R5W, U.S.M.

PROJECT
MAPCO

Well location, located as shown
in the SW 1/4 NE 1/4 Section 25,
T1S, R5W, U.S.B. & M., Duchesne
County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lane Stewart

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

X = Corners Found & Used.

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 18 Dec. 1973
PARTY G.S. & R.R.	REFERENCES GLO Plat
WEATHER Cold & Windy	FILE Mapco

December 21, 1973

Mapco Inc. et al
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102

Re: Well No's:
Birch #1-25
Sec. 25, T. 1 S, R. 5 W,
Olsen #1-27
Formerly Shell Oil #1-27A4
Sec. 27, T. 1 S, R. 4 W,
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the order issued in Cause No. 139-3/139-4.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with respect to the above will be greatly appreciated,

The API numbers assigned to these wells are:

#1-25: 43-013-30285

#1-27: 43-013-30064

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON E. FEIGHT
DIRECTOR

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR MAPCO Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW NE (1488' FNL & 1509' FEL) Section 25, T. 1 S., R. 5 W., USM Duchesne County, Utah		8. FARM OR LEASE NAME Birch
14. PERMIT NO. 43-103-30285	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6888' K.B.	9. WELL NO. 1 - 25
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

FEBRUARY REPORT:

FIRST REPORT

2-23-74

SPUDDED at 9:15 A.M.

2-24 thru 28-74: T.D. 2812'; drilling Uinta formation.

18. I hereby certify that the foregoing is true and correct

SIGNED

Edwin J. Milt

TITLE

Manager of Operations
Northern District

DATE

March 13, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
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14. PERMIT NO. 43-103-30285		9. WELL NO. 1 - 25
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6887' K.B.		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

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NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MARCH REPORT:

3-1 & 2-74: TD 3020'; drilled to 3020'. Ran 68 joints of 9-5/8", 36#, K-55 casing and landed same at 3012'. Ran Halliburton guide shoe on bottom, differential fill float collar at 2967', cement basket at 610' and centralizers at 2990', 2918' 2873', 633', 587'. Cemented with 300 sacks of 65-35 Pozmix containing 10% salt, 0.5% CFR-2, 1/4#/sack flocele, followed by 250 sacks of 50-50 Pozmix containing 2% gel, 10% salt, 1/4#/sack flocele, and tailed in with 50 sacks class "G" containing 10% salt and 1/4#/sack flocele. Bumped plug at 2:00 AM, 3-2-73, with 300 psi increase. No returns during cement job. Pumped 300 sacks of class "G" cement with 25% Cal Seal down the annulus. Cement returns to surface. WOC. Cut off 9-5/8" casing and weld on casing head. Set in BOP stack and nipling up.

3-3-74: T.D. 3020'; completed nipling up BOP stack and manifold. Pressure tested BOP stack and manifold to 3000 psi; held OK. Began drilling cement at 2946'.

3-4 thru
3-31-74: T.D. 11,998'; drilling Uinta and Green River formations.

18. I hereby certify that the foregoing is true and correct

Manager of Operations
Northern District

SIGNED

Edwin J. Milt

TITLE

DATE April 15, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR MAPCO Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW NE (1488' FNL & 1509' FEL) Section 25, T. 1 S., R. 5 W., USM Duchesne County, Utah		8. FARM OR LEASE NAME Birch
14. PERMIT NO. 43-103-30285		9. WELL NO. 1 - 25
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6887' K.B.		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
FULL OR ALTER CASING	<input type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
MULTIPLE COMPLETE	<input type="checkbox"/>		
ABANDON*	<input type="checkbox"/>		
CHANGE PLANS	<input type="checkbox"/>		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

APRIL REPORT:

4-1 thru
4-9-74: T.D. 12,833'; drilling Green River and Wasatch formations. Circulating and conditioning hole for logs.

SAMPLE TOP WASATCH RED BEDS: 12,377 (-5489) FEET

4-10- & 11-74: T.D. 12,816' (corrected); circulated 1 1/2 hours for logs. Tripped out and SLM. SLM indicated depth of 12,816'; made correction from 12,833 to 12,816'. Ran the following logs:

DILL-8	3008 - 12786
BHC Sonic GR with Caliper	7000 - 12745
FDC	7000 - 12748
CNL	7000 - 12746

Tripped in to 4500 and circulated with mud and air; tripped in to 9400 and circulated with mud and air; tripped in to TD; attempted to circulate and condition mud without success. Hole unloaded air. Pulled up, circulated and conditioned mud at 9000. Tripped to bottom; circulated and conditioned hole 4 hours for casing.

--- CONTINUED ON PAGE 2 ---

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Edwin J. Mott</u>	TITLE <u>Manager of Operations Northern District</u>	DATE <u>May 10, 1974</u>
(This space for Federal or State office use)		

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Form OGCC-1 b

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

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14. PERMIT NO. 43-103-30285		9. WELL NO. 1 - 25
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		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	(Other)	<input type="checkbox"/>		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

APRIL REPORT: Continued from Page 1

4-12 & 13-74: T.D. 12,816'; ran 306 joints of 7-5/8", 26.40#, 29.70#, 33.70#, CF-95. LTC & Buttress casing. Landed 7-5/8" casing at 12,745'. Ran Halliburton guide shoe and differential fill up collar on bottom joint. Circulated and washed 7-5/8" casing 12705 to 12745 with full returns. Cemented with 440 sacks 65-35 Pozmix containing 10% salt, 0.5% CFR-2, 0.2% HR4 followed by 200 sacks 50-50 Pozmix containing 2% gel, 10% salt, 0.5% CFR-2, 0.3% HR4 and tailed in with 100 sacks Class "G" containing 10% salt, 0.5% CFR-2, 0.3% HR4, 1/4# Flocele per sack. Displaced cement with 593 barrels mud. Bumped plug at 9 AM, 4-13-74, with 2200 psi. Good returns throughout cement job. WOC 22 hours.

4-14, 15, & 16: T.D. 12,816'; Cut off 7-5/8" casing; nipple up. Yellow jacket pressure tested BOP stack, choke and flowline to 5000 psi and Hydril, kelly, kelly cock to 2500 psi. All held OK. Picked up drill collars and drill pipe and tripped in hole with junk mill. Drilling cement and plug. Top of cement at 12,695'. Cleaned out to 12,816' and circulated bottoms up. Picked up diamond bit and tripped in. Began drilling new formation at 12,816'.

4-17 thru

4-30-74: T.D. 14,184'; drilling Wasatch Red Beds formation.

18. I hereby certify that the foregoing is true and correct

Manager of Operations
Northern District

SIGNED Edwin J. Milt

TITLE

DATE May 10, 1974

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

JUNE REPORT:

6-1: T.D. 16,325'; circulating for logs; strapped out of hole, no correction. Schlumberger ran the following logs: FDC 16,326-12,762'; CNL 16,307-12,762'; DILL-8 16,318-12,762'; BHC Sonic 16,284-12,762'. Gamma Ray on Sonic failed. Tripped in to condition hole for 5½" liner.

6-2: T.D. 16,325'; Spotted 48 barrels 10.2 ppg mud flush, then 135 barrels 15.2 ppg inverted mud, then 7 barrels 10.2 ppg mud flush.

6-3 & 4: T.D. 16,325'; ran 106 joints of 5½", 22.54#, P-110 Hydril SFJ-P liner. Landed 5½" at 15,825' with top of liner hanger at 12,433' (liner hanger 20.38'). Rigged up G0 International and ran Otis type "WB" permanent packer and tailpipe assembly on wireline. Set top of packer at 12,414' with end of tailpipe assembly at 12,449'. Rigged up Halliburton and displaced mud in 7-5/8" hole with water. Rigged up lay down machine and laying down drill pipe. Cleaned pits and nipped down. RELEASED RIG AT 12:00 MIDNIGHT, 6-4-74.

6-5 thru 17: T. D. 16,325'; rigging down rotary rig and waiting on completion rig.

6-18: T.D. 16,325'; ran 275 joints 2-7/8", 6.5#, J-55, CS Hydril tubing plus 5 pup joints (381 joints total). Spaced out tubing at 12,402' KB. All tubing tested to 10,000 psi.

-- CONTINUED ON PAGE 2 --

18. I hereby certify that the foregoing is true and correct

Manager of Operations
Northern District

SIGNED

Edwin J. Mitt

TITLE

DATE July 10, 1974

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

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2. NAME OF OPERATOR MAPCO Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW NE (1488' FNL & 1509' FEL) Section 25, T. 1 S., R. 5 W., USM Duchesne County, Utah		8. FARM OR LEASE NAME Birch
14. PERMIT NO. 43-103-30285		9. WELL NO. 1 - 25
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6887' K.B.		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM
		12. COUNTY OR PARISH Duchesne
		18. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MAY REPORT:

5-1 thru 31-74: T.D. 16,325'; drilling Wasatch Red Beds.

18. I hereby certify that the foregoing is true and correct		Manager of Operations Northern District	
SIGNED <u>Edwin J. Mitt</u>	TITLE	DATE	June 12, 1974
(This space for Federal or State office use)			
APPROVED BY		TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:			

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 	
2. NAME OF OPERATOR MAPCO Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME 	
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102		7. UNIT AGREEMENT NAME 	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW NE (1488' FNL & 1509' FEL) Section 25, T. 1 S., R. 5 W., USM Duchesne County, Utah		8. FARM OR LEASE NAME Birch	
14. PERMIT NO. 43-103-30285		9. WELL NO. 1 - 25	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6887' K.B.		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM	
		12. COUNTY OR PARISH Duchesne	
		18. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

JUNE REPORT: - Continued -

- 6-19: T.D. 16,325'; spotted packer fluid as follows: 800 barrels fresh water, 350 barrels 10#/gallon CaCl₂, 70 barrels fresh water. Stung into Otis packer with 7000# set down pressure. 143 joints, 2-3/8", 4.6#, EUE heat string set at 4519.62' KB. Removed BOP and installed OCT xmas tree. Tested tubing and tree to 10,000#, tested annulus to 3500 psi; everything OK. 2-7/8" tubing set at 12,409.59 KB.
- 6-20: T.D. 16,325'; pressured up 2-7/8" tubing to 4000 psi. Stung into plug and equalized pressure. Pressure went to 4200 psi and then fell to 3700 psi. Pulled out of hole with plug. Opened well at 1:00 PM, 6-20-74, with 4150 psi on 12/64" choke for 15 minutes; pressure fell to 3500 psi. Opened choke to 14/64" choke for 30 minutes; pressure increased to 4350 psi. Well making gas cut mud. Opened choke to 16/64" choke, flowing gas and oil cut mud. FTP fluctuating from 4100 psi to 5100 psi. Well cleaned up by 8 PM. Turned well to treater on 10/64" choke with 5000 psi FTP, at 8 PM. At 11:30 PM opened choke to 16/64" with 4100 psi FTP. Flowed 668 barrels of oil in 9 hours through 16/64" choke at 3900-4400 psi FTP.

END OF MONTHLY SUNDRY REPORTS

18. I hereby certify that the foregoing is true and correct

Manager of Operations
Northern District

SIGNED Edwin J. Milt

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Birch

9. WELL NO.

1-25

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 25,
T. 1 S., R. 5 W., USM12. COUNTY OR
PARISH

Duchesne

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

MAPCO Inc.

3. ADDRESS OF OPERATOR

Suite 320 Plaza West
1537 Avenue D, Billings, Montana

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

SW NE (1488' FNL & 1509' FEL)

At top prod. interval reported below

Sec. 25, T. 1 S., R. 5 W., USM

At total depth

Duchesne County, Utah

14. PERMIT NO.

43-103-30285

DATE ISSUED

12-21-73

15. DATE SPUDDED
2-23-7416. DATE T.D. REACHED
6-1-7417. DATE COMPL. (Ready to prod.)
6-21-7418. ELEVATIONS (DF, RKB, RT, GB, ETC.)*
6867' G.L.-6887' K.B.

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD
16,325'21. PLUG, BACK T.D., MD & TVD
15,825'22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BYROTARY TOOLS
Surf-16325'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Wasatch

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN
BHC-Sonic, Gamma Ray, SP
Dual Induction Laterolog 8, FDC-CNL-Caliper

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	3012'	12-1/4"	900 sacks	
7-5/8"	26.4, 29.7, 33.7	12,745'	8-3/4"	740 sacks	
13-3/8	48#	130'	17-1/4"	200 sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5-1/2"	12,433'	15,825'	None		2-7/8"	12,410'	12,414'
					2-3/8"	4520	

31. PERFORATION RECORD (Interval, size and number)

None

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
6-20-74		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-22-74	24	14/64"	→	1333	425	0	319
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2700#		→	1333 ✓	425	0	41	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for fuel and flared

TEST WITNESSED BY

Max Farnsworth

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Edwin J. Milt

TITLE

Manager of Operations
Northern District

DATE

9-3-74

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS		Mechanical Logs	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Lower Green River Marker I	10751	-3863
				Top Wasatch Red Beds	12377	-5489
				Base Wasatch Red Beds	14694	-7806



mapco
INC.

PRODUCTION DIVISION

September 25, 1974

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
5188 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Scheree Wilcox

Dear Scheree:

In reply to your letter of September 12, 1974, here is the information which we neglected to include on our "Well Completion and Recompletion Forms" submitted to your office. The well locations and producing intervals are as follows:

MAPCO, Sorensen #1-5
Sec. 5, T. 2 S., R. 5 W.

Wasatch Formation
13,500 - 15,357'

MAPCO, State #1-8
Sec. 8, T. 1 S., R. 3 W.

Wasatch Formation
13,575 - 16,455'

MAPCO, Birch #1-25
Sec. 25, T. 1 S., R. 5 W.

Wasatch Formation
12,745 - 16,325'

MAPCO, Miles #1-30
Sec. 30, T. 1 S., R. 4 W.

Wasatch Formation
13,095 - 16,250'

Please accept our apology for the inconvenience caused by this oversight.

Very truly yours,

MAPCO INC.

Agnes W. Model

(Mrs.) Agnes W. Model
Secretary to J. D. Holliman

October 3, 1974

Mapco Inc.
Suite 320 Plaza West
1337 Avenue D
Billings, Montana

Re: Well No's:
Birch #1-25
Sec. 25, T. 1 S, R. 5 W,
State #1-8
Sec. 8, T. 1 S, R. 3 W,
Sorensen #1-5
Sec. 5, T. 2 S, R. 5 W,
Duchesne County, Utah

Gentlemen:

This letter is to advise you that the electric and/or radioactivity logs for the above referred to wells are due and have not as yet been filed.

In order to keep our files accurate and complete, it would be greatly appreciated if said logs were forwarded at your earliest convenience.

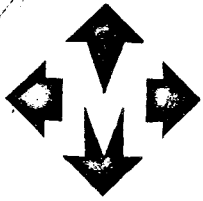
Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw



mapco
INC.

PRODUCTION DIVISION

October 7, 1974

STATE OF UTAH
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Scherie Wilcox

Re: Well No's:
 Birch #1-25
 Sec. 25, T. 1 S, R. 5 W,
 State #1-8
 Sec. 8, T. 1 S, R. 3 W,
 Sorensen #1-5
 Sec. 5, T. 2 S, R. 5 W,
 Duchesne County, Utah

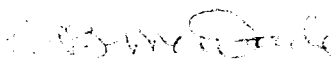
Dear Madam:

In regard to the above captioned wells, the final prints have not been distributed for the Birch #1-25 and the Sorensen #1-5. We are enclosing the final prints for the State #1-8.

Thank you for bringing this matter to our attention.

Very truly yours,

MAPCO INC.


L. B. McDade
Senior Geologist

LBM/ki1

enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Birch No. 1-25

Operator MAPCO Inc.

Suite 320 Plaza West
Address 1537 Avenue D, Billings, Montana 59102

Contractor Viersen C ochran

Address Oklahoma City, Oklahoma

Location SW 1/4, NE 1/4; Sec. 25; T. 1 S, R. 5 W, Duchesne County.

Water Sands:

	<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>
	From - To -	Flow Rate or Head -	Fresh or Salty -
1.	20 - 23' Surface		Fresh
2.			
3.			
4.			
5.			

(Continue on Reverse Side if Necessary)

Formation Tops:

- NOTE:
- Upon diminishing supply of forms, please inform this office.
 - Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 - If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

Form OGCC-1b

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR MAPCO Inc. 3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below. At surface SW NE (1488' FNL & 1509' FEL) Section 25, T. 1 S., R. 5 W., USM Duchesne County, Utah		5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME Birch 9. WELL NO. 1 - 25 10. FIELD AND POOL, OR WILDCAT Altamont 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM 12. COUNTY OR PARISH Duchesne 13. STATE Utah
14. PERMIT NO. 43-013-30285	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6887' K.B.	

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☒REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☒(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

CONTINUED:

Max. Rate - 5 BPM
 Min. Rate - 4 BPM
 Ave. Rate - 4.5 BPM
 ISDP - 5,200 psi
 5 min. - 4,800 psi

Max. Pressure - 7,200 psi
 Min. Pressure - 6,200 psi
 Ave. Pressure - 6,000 psi
 10 min. - 4,600 psi
 15 min. - 4,400 psi

Final pump in pressure was 6,600 psi. Flushed with 120° formation water using 3 gallons/1,000 D-12 foaming agent and 500 SCF N₂/barrel. Flushed to top perf. Acid contained 15 gallons C-15 inhibitor, 15 gallons J-22 non-emulsion agent, converted to 12% HCl-3% HF acid and D-12 foaming agent at 3 gallons per 1,000 gallons. Rigged down NOWSCO and BJ, opened well to pit at 9:15 AM, on 10/64" choke with 4,000 psi after being shut in 28 minutes. As pressure bled down, kept opening choke to maximum of 32/64". Flowed well to pit and cleaned up for 3½ hours. Recovered acid and large amounts of drilling mud. Switched into tester at 1:30 PM on 16/64" choke at 380# FTP.

18. I hereby certify that the foregoing is true and correct

SIGNED

J. D. Holliman

/for

TITLE

Manager of Operations
 Northern District

DATE

January 7, 1975

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR MAPCO Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below. At surface SW NE (1488' FNL & 1509' FEL) Section 25, T. 1 S., R. 5 W., USM Duchesne County, Utah		8. FARM OR LEASE NAME Birch
14. PERMIT NO. 43-013-30285	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6887' K.B.	9. WELL NO. 1 - 25
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☒
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☒
☐
☐

FRACTURE TREATMENT

REPAIRING WELL

SHOOTING OR ACIDIZING

ALTERING CASING

(Other)

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

11-3-74

T.D. 16,325'; rigged up NOWSCO and BJ. Went in hole with 1" coil tubing. Pumping formation water treated with D-12 foaming agent. Ran 1" tubing to 14,000'. Hole full of formation water and D-12 (129 bbl). Spotted 2500 gallon 12-3 mud acid containing BJ additives: G-15, G-10, J-22, D-12 below 1' tubing. Closed well in and displaced acid into formation around guide shoe of 5½" liner. Maximum rate of 1 BPM, minimum rate 1 BPM, average rate 1 BPM, maximum pressure 3750 psi, minimum pressure 3500 psi, average pressure 3600 psi. Unloaded acid water and formation water with 110,000 SCF out of hole @ 5:00 PM, 11-3-74. Zero pressure on well. Small amount of gas, mostly N₂, will not flare. Recovered foamy water. Unable to detect acid water returns. No evidence of acid at bleeder on tree. Opened well to 48/64" choke with zero FTP. Changed to 16/64" choke @ 5:00 AM. Making gas, no fluid. Gas smells like contains some acid.

12-29-74

T.D. 16,325'; shut in pressure before acid job--600 psi. Rigged up BJ and NOWSCO, pumped 5,000 gallons foamed mud acid (12% HCl-3% HF) using 120 ball sealers, pumping nitrogen at a rate of 300 SCF per barrel of acid and spacing out ball sealers in acid. Initial pump in pressure was 800 psi at 4 BPM. Pressure increased to 3,200 psi. Increased pump rate to 5 BPM when acid reached top perforation in liner. Pressure increased to a maximum of 7,200 psi at 4.5 BPM. CONTINUED ON PAGE 2.

18. I hereby certify that the foregoing is true and correct

SIGNED Agnes W. Modell for
J. D. Holliman

TITLE

Manager of Operations
Northern District

DATE January 7, 1975

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR MAPCO Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW 1/4 NE 1/4 1488' FNL & 1509' FEL Section 25		8. FARM OR LEASE NAME Birch
14. PERMIT NO. 43-013-30285		9. WELL NO. 1 - 25
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6867' G.L. - 6887' K.B.		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Section 25 T. 1 S., R. 5 W., USM
		12. COUNTY OR PARISH Duchess
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input checked="" type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) perforate; gas lift	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

3-14-75: Started gas lift operation and increased production from 52 to 140 BOPD.

8-26-75: Treated with 50,000 gals. diesel containing Benzoic acid flakes and Hyflo III in seven stages.

3-16-76: Perforated from 13,863' to 15,790' with 444 shots and increased production from 0 to 87 BOPD.

3-26-76: Acidized with 21,000 gallons 7-1/2% HCl and 11,000# TLC-80. Production decreased from 75 to 22 BOPD.

18. I hereby certify that the foregoing is true and correct		Geological Clerk	AUG 17 1976
SIGNED <i>Agnes W. Model</i> (M.S.) Agnes W. Model	TITLE & Secretary	DATE	
(This space for Federal or State office use)			

APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		



PRODUCTION DIVISION - NORTHERN DISTRICT

September 8, 1978

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

RE: MAPCO, Birch 1-25
MAPCO, Sorensen 1-5
MAPCO, Sorensen 1-6

Gentlemen:

Please be advised that the reference leases have been assigned to Great Western Energy Company, a Utah Partnership, P. O. Box 1098, Vernal, Utah 84078, Attention: Donald J. Johnson, as of 7:00 a.m. July 27, 1978.

Very truly yours,

801-789-6861

MAPCO Inc.

J. D. Holliman
Manager of Operations
Northern District

Change name on record

- Mail file

- U.E. sheet

Enclosure

801-789-6861

JV



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 20, 1983

Great Western
P.O. Box 1098
Vernal, Utah 84078

Re:

Well No. Birch #1-25
SW NE 1488' FNL 1509' FEL
Sec. 25, T. 1S, R. 5W.
Duchesne County, Utah

Gentlemen:

According to a note attached to our well file on the above referred to well, it is now operated by you. We have not received the proper information stating that your company is now operator of this well. If you have resumed operations on this well, it is your responsibility as current operator to submit those changes to this office. Please send in those changes stated on a Sundry Notice OGC-1b (enclosed).

We have also checked our bond file and cannot find a drilling bond for your company in our office. We have therefore enclosed a drilling bond to be executed and returned. It is necessary to have a drilling bond on file in our office for any fee lease well which is not plugged and abandoned in the State of Utah.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our company.

Thank you for your prompt attention to the above matter.

Respectfully,

Claudia Jones
Well Records Specialist

CJ/cj
Enclosure

PO Box 1098

Va ut 84078

~~W.D.D.D.~~
Birch 1-28

D Johnson 649-8331¹⁰³⁴

SWI Exploration

has taken over operation
as per phone conversation
with D Johnson 2/28/84
Will send in sundry.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 26, 1984

D & J Oil Company
P. O. Box 798
Park City, Ut 84060

RE: Well No. Birch #1-25
API #43-013-30285
S W NE 1488' FNL 1509' FEL
Sec. 25, T. 1S, R. 5W.
Duchesne County, Utah

Dear Mr. Johnson:

In our recent telephone conversation you indicated that this well had been taken over by TWT Exploration and that you would send in a sundry notice to that effect. As of today's date this office has not received the proper notification of this operator change.

I have enclosed form OGCC-1b "Sundry Notices and Reports on Wells" for your convenience in complying with the rules and regulations.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our division.

Thank you for your prompt attention to the above matter.

Respectfully,

Claudia Jones
Well Records Specialist

CLJ/cj

cc: Dianne R. Nielson, Director
Ronald J. Firth, Associate Director

Enclosure



DSP422802813

DOGM 56 64 22
an equal opportunity employer

Page 1 of 1

MONTHLY OIL AND GAS DISPOSITION REPORT

Operator Name Great Western Energy Utah Account No. W5930
Address P. O. Box 1329 Report Period (Month/Year) June 1984
City Park City State Utah Zip 84060 Amended Report ☐

Producing Entity No.	Prod. Type	API/ BTU	Beginning Inventory	Volume Produced	Product Disposition				Ending Inventory
					Transported	Used on Site	Flared/Vented	Other	
09050	OL	47	336	1021	999	-0-	-0-	-0-	358 ✓
09050	GS	?	-0-	401	-0-	401	-0-	-0-	-0- ✓
AUG 13 1984			TOTAL	336	1421	999	401	-0-	-0- 358

Comments (attach separate sheet if necessary)

I have reviewed this report and certify the information to be accurate and complete.

Date _____

Telephone

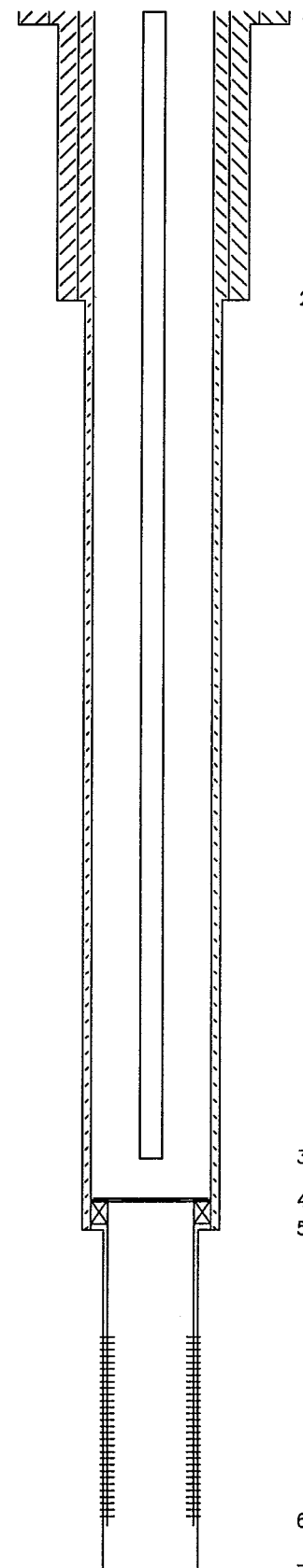
Authorized Signature

Lease: BIRCH
Well #: 1-25

Spud Date: 02/23/1974
KB: 6687
TD: 16325

Comp Date: 06/01/1974
ELEV: 6867
PBSD: 15825

API #: 43-013-30285-
Location: Sec 25 Twn 01S Rng 05W
County: DUCHESNE
State: UTAH
Field: ALTAMONT
Operator: GREAT WESTERN ENERGY

<div>0-</div> <div>1640-</div> <div>3280-</div> <div>4920-</div> <div>6560-</div> <div>8200-</div> <div>9840-</div> <div>11480-</div> <div>13120-</div> <div>14760-</div>		1	Start	Size	Description
			End	Length	
			0.0	17.250	
			130.0	130.0	
			0.0	13.375	
			130.0	130.0	
			0.0		
			130.0	130.0	
			0.0		
			130.0	130.0	
	2	2	130.0	12.250	Hole: SURFACE
			3012.0	2882.0	
			0.0	9.625	
			3012.0	3012.0	
			0.0		
			3012.0	3012.0	
			0.0		
			3012.0	3012.0	
			0.0		
			3012.0	3012.0	
NO RECORDS SUBMITTED ON THE DOWNHOLE ASSEMBLY EVEN THOUGH THE WELL WAS PRODUCING WITH A HYDRAULIC ASSEMBLY WHEN IT LAST PRODUCED.					
	3	3	0.0	2.875	Tubing: WELL NOW PUMPING W/HYDRAULIC PUMPING DEPTH UNKNOWN ?
			12000.0	12000.0	
			12414.0	7.625	
			12449.0	35.0	
			3012.0	8.750	
			12745.0	9733.0	
			0.0	7.625	
			12745.0	12745.0	
			0.0		
			12745.0	12745.0	
	6	6	13863.0		Perf: 444 SHOTS
			15790.0	1927.0	
			12433.0	5.500	
			15825.0	3392.0	
			12745.0	6.000	
			16325.0	3580.0	
			0.0		
			12745.0	12745.0	
			0.0		
			12745.0	12745.0	

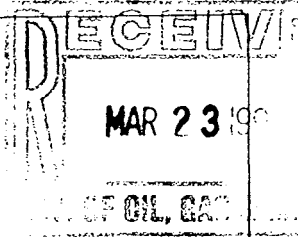
MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

JOHN PINDER
GREAT WESTERN ENERGY
PO BOX 1329
PARK CITY UT 84060

UTAH ACCOUNT NUMBER: N5930

REPORT PERIOD (MONTH/YEAR):

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
BIRCH 1-25								
4301330285	09050	01S 05W 25	GR-WS	5-in	None	0	0	0
SORENSEN 1-5								
4301330296	09051	02S 05W 5	GR-WS	shut in	0	0	0	0
SORENSEN 1-6								
4301330231	09152	02S 05W 6	GR-WS	shut in	0	0	0	0
TOTALS						0	0	0

COMMENTS:

Birch 1-25 ~~is Not~~ Belongs To Steve Will
Sorensons are Not Mechanically Equiped To
Produce

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 3/21

Name and Signature:

Bel-Indo Far job/mali

Telephone Number:



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 21, 1994

TO: Lisha Romero
FROM: Steve Schneider, Audit Manager *Steve*
RE: Operator Change on Birch 1-25 Well (43-013-30285)

Considerable evidence has been received to support an operator change on the above referenced well, which I have reviewed with RJ. The Birch 1-25 is currently in our system under Great Western Energy, N5930. This well should be under Amtech Energy, N9210.

Evidence has been received from both parties as follows:

1. Agreement dated October 11, 1989 between Great Western Energy as seller and Amtech Energy as buyer. As shown on the attached, this agreement was recorded by the Duchesne County Recorder. This document was obtained from Steve Hill of Amtech during a production and disposition audit of Amtech on October 7, 1993. Mr. Hill verbally confirmed to me on October 7, 1993 that Amtech had purchased the Birch 1-25 well from Great Western Energy, but apparently never reported such to our Division.
2. Production report dated March 21, 1994 from Great Western Energy, which states "Birch 1-25 belongs to Steve Hill."
3. In addition, inspections since December 14, 1990 reflect Amtech Energy as the operator of the Birch 1-25.

If there are questions, let me know.

Attachments

cc: R. J. Firth
V. L. Carney

AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, Great Western Energy Company, a Utah partnership, of Park City, Utah, is the operator and owner of certain leases and interests in the following described oil wells and leases in Duchesne County, Utah, to wit:

Birch 1-25 (Section 25, Township 1 South, Range 5 West USM)

Sorenson 1-6 (Section 6, Township 2 South, Range 5 West USM)

↳ Per Steve Hill on 10/8/73, Great Western bought back the Sorenson 1-6 at a tax sale at least one year ago.
(as more particularly set forth in Exhibit "A" hereto) and that the said wells are the respective unit wells for the above described sections as to the subsurface pooled interval described as from the top of the lower Green River formation (TGR3 marker) to the base of the Green River Wasatch formation.

NOW THEREFORE, Great Western Energy Company (hereafter entitled "Assignor"), hereby enters into this agreement with Amtech Energy, Inc., a Utah Corporation of 2285 Ridgewood Way, Bountiful, Utah, (hereafter entitled "Assignee"), and hereby assigns, sells, transfers, sets over, and conveys unto Assignee all its right, title and interest in and to the above described wells and leases including all rights in, to, and under all agreements, leases, permits, easements, licenses, and orders in every way relating thereto; together with all interest in any personal property, fixtures, equipment, and improvements now on such lands, appurtenant thereto or used or obtained in connection therewith or with the production, treating or transportation of hydrocarbons produced therefrom or attributable thereto, and all other appurtenances thereunto belonging.

The above assignment is subject to the following terms and conditions:

1. Assignor estimates its current ownership position to be 13% working interest in the Birch 1-25 and 70% working interest in the Sorenson 1-6. If this ownership position is not at least 10% in the Birch 1-25 and 50% in the Sorenson 1-6, Assignee may, at its option, cancel this agreement and be refunded any and all monies tendered Assignor to date.
2. Assignee tenders the amount of \$4000 (\$2000 upon execution and \$2000 in 30 days) for a six month option to exercise this agreement in full, and can extend that option for additional one month periods for \$1000 for each month, the total option not to exceed twelve months. All monies received for this option are to be considered part of the total payment for the assignment as indicated herein.
3. Assignee agrees to have paid to Assignor the total sum of Ten Thousand Dollars (\$10,000.00) when the Birch 1-25 well is placed on production, and an additional Ten Thousand Dollars (\$10,000.00) when the Sorenson 1-6 is placed on production, which amount for the Sorenson 1-6 may be tendered Assignor on a monthly basis out of production equal to no less than \$2000 per month, starting with the first month production payments begin.
4. All individual investors in the Birch 1-25 well will be given preferential treatment as follows. Assignee will take every necessary action to bring the Birch 1-25 on production, however if it is determined that it would not be reasonably profitable to produce the Birch 1-25 (due to lack of commercial production, title related problems, etc.) the investors will be assigned working interest in the Sorenson 1-6 well equal

ENTRY NO. 273950 DATE 1-3-90 TIME 8:45 AM BOOK MR 237 PAGE 452-452
FEE \$ 11.50 RECORDED AT REQUEST OF Amtech Energy Inc
Catherine Malachuk DUCHESNE COUNTY RECORDER 2285 Ridgewood Way Bountiful, UT 84002

to one-half the interest owned by each investor in the Birch 1-25.

5. If it is not necessary to assign working interest to the individual investors as stated in paragraph 4, then Assignor will be assigned 20% carried working interest (Assignor will still pay its share of lease operating expenses) in the Sorenson 1-6 which may be converted to a 2.5% overriding royalty at Assignor's option. If it is necessary to assign working interest in the Sorenson 1-6 to the individual investors, Assignee will be assigned a 10% carried working interest in the Sorenson 1-6 which may be converted to a 1.25% overriding royalty at Assignor's option. Assignee will exercise all due diligence to reduce the existing royalty burdens, through negotiations with current royalty holders, to allow for this assignment to Assignor but shall in no means cause the total royalty burden to exceed 30%.

6. If Assignee is unable to arrive at suitable arrangements regarding reduction of royalties, payment of assumed financial obligations, or other arrangements it deems necessary for the production and operation of the subject wells and lands, at its option, it may terminate this agreement without prejudice, with all right, title and interest in the subject wells and lands being assigned with this agreement reverting to Assignor. All monies tendered by Assignee at such time will be retained by Assignor.

7. Assignee will assume all burdens, encumbrances, contracts, and/or agreements pertaining to the subject properties which are disclosed in their entirety herein, which shall specifically include any amounts owing for the work-over of the Birch 1-25 incurred during the period from November 1987 to July 1988, and specifically exclude any amounts which may be awarded as a result of any legal action against the State of Utah.

8. Assignee will follow all standard and acceptable procedures as outlined by the appropriate governing agencies, including posting the required bond(s) for each well, releasing Assignor from all liability associated with operating said wells.

9. This assignment is made without warranty to title, either expressed or implied. Assignor will, however, provide assignee with a copy of title opinions on both the Birch 1-25 and Sorenson 1-6 for information purposes only.

10. Separate assignments of the interests assigned herein may be executed on approved forms by Assignor to Assignee, in sufficient counterparts to satisfy applicable statutory and regulatory requirements, when all obligations are met hereunder.

Executed and made effective this 11th day of October 1988.

GREAT WESTERN ENERGY CO., a Utah
Partnership

BY: John R. Pinder
John R. Pinder for himself and
PINDER INVESTMENT COMPANY, sole
general partners

AMTECH ENERGY, INC.

BY: Steven L. Hill
Steven L. Hill, President

STATE OF UTAH)

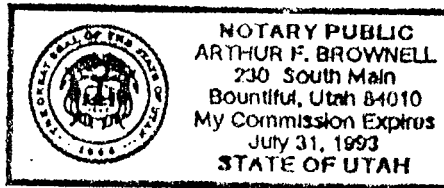
COUNTY OF Davis)

: ss.

I hereby certify that on the 11th day of Oct, ¹⁹⁸⁸~~1988~~, personally appeared before me John R. Pinder individually and as and authorized principal and/or officer and agent of Pinder Investment Company, sole general partners of Great Western Energy Company, the signer of the within instrument, who duly acknowledged to me that he executed the same individually and for and on behalf of Pinder Investment Company and Great Western Energy Company.

Arthur F. Brownell
Notary Public, residing at
Davis County, Utah

My Commission Expires:



STATE OF UTAH)

COUNTY OF Davis)

: ss.

I hereby certify that on the 11th day of Oct, ¹⁹⁸⁸~~1988~~, personally appeared before me Steven L. Hill, and as an authorized principal and officer of Amtech Energy, Inc., the signer of the within instrument, who duly acknowledged to me that he executed the same for and on behalf of Amtech Energy, Inc.

Arthur F. Brownell
Notary Public, residing at
Davis County, Utah

My Commission Expires:

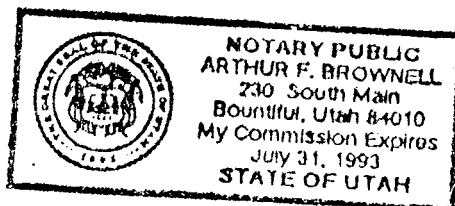


EXHIBIT "A"

DIRCH 1 - 25

MAPCO LEASE NO.	LESSOR	LESSEE	DATE	DESCRIPTION	RECORDED BOOK	PAGE
<u>TOWNSHIP 1 SOUTH, RANGE 5 WEST, U.S.M.</u>						
UT-118-B	Sterling A. Meyer et ux	Shell	9/28/70	Sec. 25: NE/4 NW/4	94 MR -	320-1
UT-119	Harold Birch, a single man	Shell	10/0/63	Sec. 25: SW/4, SW/4 NW/4, NW/4 NW/4, SE/4 NW/4 Except 9.0 acre tract therein	53 MR	110-9
UT-120-B	Joseph H. Kemp et ux	Shell	4/3/64	Sec. 25: NW/4 NE/4	55 MR	455-6
UT-67-D	Fred S. Birch, a single man	Tenneco	10/19/67	Sec. 25: S/2 NE/4, SE/4, 9.00 acre tract in SE/4 NW/4	70 MR	191-2
UT-65	Violet S. Cluff et al	Shell	11/1/63	Sec. 25: NE/4 NW/4	³ 54 MR	599-600

EXHIBIT "A"
SORENSEN 1 - 6

NO.	LESSOR	LESSEE	DATE	DESCRIPTION	RECORDED	
					BOOK	PAGE
				<u>TOWNSHIP 2 SOUTH, RANGE 5 WEST</u>		
-G	H. S. Milam et ux	Shell	7/30/70	Sec. 6: All	92 MR	141
-C	Michael P. McDermott et ux	Shell	8/3/70	Sec. 6: All	93 MR	349
	Calvin P. Gaddis et ux	Shell	9/15/70	Sec. 6: All	94 MR	406
-D	George Gregson	Shell	9/24/70	Sec. 6: All	95 MR	505
-E	Southern Petroleum Explor. Inc.	Shell	8/18/70	Sec. 6: All	94 MR	557
-H	Arley C. Sorensen et ux	Shell	10/21/63	Sec. 5: All	53 MR	406
-I	H. A. Sorensen et ux	Shell	10/21/63	Sec. 6: All	53 MR	527
-J	Croff Oil Company	Shell	10/21/63	Sec. 6: All	54 MR	427
-K	H. B. Markam, W. D. Nebeker Jr. and Alan B. Blood, Trustees	Shell	10/21/63	Sec. 6: All	55 MR	475
-VV	W. Hughes Brockbank et ux	Shell	10/21/63	Sec. 6: All	53 MR	148
-X/VV	James Richard Jones et ux	Shell	10/21/63	Sec. 6: All	53 MR	551



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 22, 1994

Certified Return Receipt Requested
P 075 063 383

Steven L. Hill
Amtech Energy Inc.
280 South Center Street
Hyrum, Utah 84319

Re: Change of Operator, Great Western Energy to Amtech Energy Inc. - Birch 1-25, Sec. 25, T. 1S, R. 5W - Duchesne County, Utah

Dear Mr. Hill:

The Division of Oil, Gas and Mining (the "Division") has been advised by Great Western Energy on their Monthly Oil and Gas Production and Disposition Report that Amtech Energy Inc. ("Amtech") is the operator and responsible party for the Birch 1-25 well.

Also, the Division has received and reviewed the "Agreement" dated October 11, 1989, between Great Western Energy, as seller and Amtech Energy Inc., as buyer and new operator, for the above referenced well. The agreement was recorded by the Duchesne County Recorder on January 3, 1990.

Pursuant to Utah Admin. R.649-3-1 et seq., Bonding, Amtech is required to furnish a bond in the amount of (\$40,000), payable to the Division, and conditioned upon the faithful performance of the duty to plug each dry or abandoned well, repair each well causing waste or pollution, and maintain and restore the well site.

Page 2
Amtech Energy Inc.
June 22, 1994

Amtech has failed to comply with this provision to furnish a bond. Therefore, if compliance is not achieved within thirty (30) days following receipt of this letter, the Division will recommend to the Board of Oil, Gas and Mining ("Board") that Amtech be issued an Order to Show Cause and be required to appear before the Board at its next regularly scheduled hearing.

Should you have any questions regarding this matter, please contact me or Lisha Cordova at (801)538-5340.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. J. Firth', with a stylized flourish extending from the end.

R. J. Firth
Associate Director, Oil & Gas

lec

Enclosure

cc: Great Western Energy, w/encl.
James W. Carter, Director
Janice Brown, Secretary to the Board
Thomas A. Mitchell, Assistant Attorney General
Bond File
Correspondence File/ldc

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

Routing:

1	LEP 7-PL	✓
2	LWP 8-SJ	✓
3	PLS 9-FILE	✓
4	VLC	✓
5	RJF	✓
6	LWP	✓

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 10-11-89)

TO (new operator) AMTECH ENERGY INC
 (address) 280 S CENTER ST
HYRUM UT 84319
STEVEN L HILL, PRES.
 phone (801) 245-5992
 account no. N 9210

FROM (former operator) GREAT WESTERN ENERGY
 (address) PO BOX 1329
PARK CITY UT 84060
JOHN PINDER
 phone (801) 649-8382
 account no. N5930

Well(s) (attach additional page if needed):

Name: <u>BIRCH 1-25/GR-WS</u>	API: <u>43-013-30285</u>	Entity: <u>9050</u>	Sec <u>25</u> Twp <u>1S</u> Rng <u>5W</u>	Lease Type: <u>FEE</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd "Agreement" 1/94-4/94 Prod. Rpt. on 6-21-94)
- Lee 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd "Agreement" on 6-21-94)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (6-21-94)
- LWP 6. Cardex file has been updated for each well listed above. 6-28-94
- LWP 7. Well file labels have been updated for each well listed above. 6-28-94
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (6-21-94)
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Le* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- Le* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. **Reg. by letter dated 6-22-94.*
- * Upon compl. of reading.*
2. A copy of this form has been placed in the new and former operators' bond files.
- N/A* 3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *not sent per direction from ROF.*
- OTS 6/29/94*
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓* 1. All attachments to this form have been microfilmed. Date: June 29 1994.

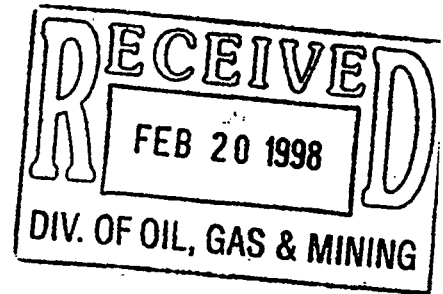
FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

DILLINGHAM

I • N • S • U • R • A • N • C • E



February 17, 1998

Ms. Lisha Cordova
State of Utah
Division of Oil, Gas & Mining
1594 West N Temple Su 1210
Salt Lake City, UT 84114-5801

RE: Road Runner Oil, Inc.

Lisha, please accept the enclosed Gulf Insurance Company's Blanket Surety Bond number 57 43 38 on behalf of the above.

If you need any additional information, please let me know. Thank you.

Cordially,

DILLINGHAM INSURANCE

A handwritten signature in cursive script, appearing to read "Norine Dotson".

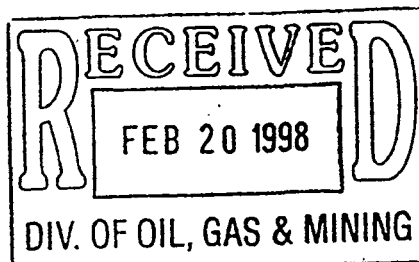
Norine Dotson

CC: Road Runner Oil, Inc.
P O Box 409
Duchesne, UT 84021
CC: Gulf Insurance Company
Dallas, TX
CC: Bureau of Land Management
Salt Lake City, UT 84145
CC: Richardson Operating Co.
Denver, Co



Affiliated with InServices, Inc.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



SURETY BOND - FORM 4-A

57 43 38

KNOW ALL MEN BY THESE PRESENTS:

That we ROAD RUNNER OIL, INC. (operator name) as Principal,

and GULF INSURANCE COMPANY (surety name) as Surety,
duly authorized and qualified to do business in the State of Utah, are held and firmly bound unto the State
of Utah in the sum of:

Eighty Thousand dollars (\$ \$80,000.)

lawful money of the United States, payable to the Director of the Division of Oil, Gas and Mining, as agent
of the State of Utah, for the use and benefit of the State of Utah for the faithful payment of which we bind
ourselves, our heirs, executors, administrators and successors, jointly and severally by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the principal is or will be engaged in drilling,
redrilling, deepening, repairing, operating, and plugging and abandonment a well or wells and restoring the
well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and
disposal of fluids in connection therewith for the following described land or well:

☒ Blanket Bond: To cover all wells drilled in the State of Utah

☐ Individual Bond: Well No. _____
Section _____ Township _____ Range _____
County, Utah

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the laws of the State
of Utah and the rules, orders and requirements of the Board of Oil, Gas and Mining of the State of Utah,
including, but not limited to the proper plugging and abandonment of wells and well site restoration, then
this obligation is void; otherwise, the same shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, said Principal has hereunto subscribed his or their names or has caused this
instrument to be signed by its duly authorized officers and its corporate seal to be affixed this

17TH day of FEBRUARY, 19 98 ROAD RUNNER OIL, INC.

(Seal)

Principal
By JOHN PINDER PRESIDENT
Name and Title

IN TESTIMONY WHEREOF, said Surety has caused this instrument to be signed by its duly authorized officers and
its corporate seal to be affixed this 17TH day of FEBRUARY, 19 98

(Seal)

GULF INSURANCE COMPANY
Surety (Attach Power of Attorney)
By Dan L. Dillingham
Name and Title ATTORNEY-IN-FACT
P. O. BOX 1741
Surety's Mailing Address
DALLAS, TEXAS 75221



POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That GULF INSURANCE COMPANY, a corporation of the State of Missouri, hereinafter called "Company," does hereby appoint

DAN L. DILLINGHAM OR JOHN E. DILLINGHAM OR DANIEL CHAD DILLINGHAM OR
JOHN K. MARTIN

ENID, OKLAHOMA

its true and lawful Attorney-in-fact to make, execute, seal and deliver on its behalf, as surety, any and all bonds and undertakings of suretyship.

The execution of such bonds or undertakings in pursuance of these presents shall be as binding upon the Company as if they had been executed and acknowledged by the regularly elected officers of the Company.

This Power of Attorney is issued pursuant to and by authority of the following resolution of the Board of Directors of the Company, adopted effective July 1, 1983, and now in full force and effect:

"Resolved that the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary may appoint Attorneys-in-fact in any state, territory or federal district to represent this Company and to act on its behalf within the scope of the authority granted to them, in writing, which authority may include the power to make, execute, seal and deliver on behalf of this Company, as surety, and as its act and deed, any and all bonds and undertakings of suretyship and other documents that the ordinary course of surety business may require, including authority to appoint agents for the service of process in any jurisdiction, state or federal, and authority to attest to the signature of the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary and to verify any affidavit or other statement relating to the foregoing, and to certify to a copy of any of the bylaws of the Company and to any resolutions adopted by its Board of Directors; and any such Attorney-in-fact may be removed and the authority granted him revoked by the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary, or by the Board of Directors."

This Power of Attorney and Certificate are signed and sealed by facsimile under and by authority of the following resolution of the Board of Directors of the Company, adopted effective July 1, 1983, and now in full force and effect:

"Resolved that the signature of the President, or of any Senior Vice President, or of any Vice President, or of the Secretary, or of any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Attorneys-in-fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, including any such power of attorney and certificate revoking the authority of the foregoing Attorneys-in-fact, as well as for the appointment of agents for the service of process in any jurisdiction, state or federal, including any such power of attorney and certificate revoking the authority of such agents; and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power of attorney or certificate so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company at the time any such power of attorney and certificate are executed and in the future with respect to any bond or undertaking to which they are attached."

In Witness Whereof, the Company has caused this Power of Attorney to be signed and its corporate seal to be affixed by its authorized officer this

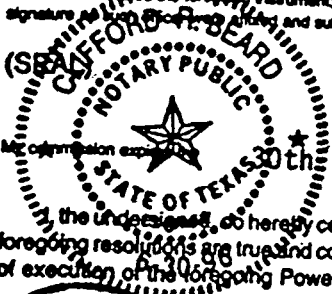
13th of June, 1996



By Bill Messick
Sr. Vice President

On this 13th day of June, 1996

before me, a Notary Public of the State and County aforesaid, residing therein, duly commissioned and sworn, personally came the above named officer of GULF INSURANCE COMPANY, who being by me first duly sworn according to law, did depose and say that he is that officer of the company described in and which executed the foregoing instrument; that he knows the seal of said company; that the seal affixed to such instrument is the corporate seal of said company; and that the corporate seal and his signature are on the instrument and subscribed to the said instrument by the authority and direction of said company.



Clifford R. Beard
Notary Public

day of June, 1996

CERTIFICATE

the undersigned do hereby certify that the original Power of Attorney of which the foregoing is a true and correct copy is in full force and effect, and the foregoing resolutions are true and correct transcripts from the records of GULF INSURANCE COMPANY and that the above named officer was on the date of execution of the foregoing Power of Attorney authorized to execute this Power of Attorney.



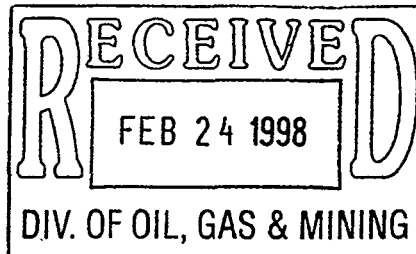
In Witness Whereof, I have hereunto subscribed my name and affixed the corporate seal of Gulf Insurance Company this

17TH day of

FEBRUARY

1998

Rodney Ricketts
Vice President



ROAD RUNNER OIL, INC.
BOX 358
DUCHESNE, UT 84021
(801) 548-2343

February 17, 1998

VIA FACSIMILE AND REGULAR MAIL

Lisha Cordola
Division of Oil, Gas & Mining
State of Utah
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114

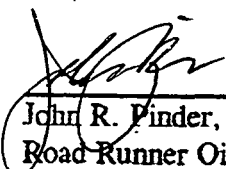
Dear Lisha:

Pursuant to terms of escrow instructions given to you regarding the Amtech Post 1-19 Well located in the Roosevelt Unit and upon successful placement of an area bond on behalf of Road Runner Oil, Inc., please utilize this letter as a directive to initiate the following:

1. Place the Amtech Post 1-19 Well under Road Runner's bond;
2. Release \$10,000.00 of Amtech's \$20,000.00 bond directly to Phil Lear or designee;
3. Send balance of bond to Steve Hill;
4. Place the following wells under Road Runner's bonds in addition to the list provided herein:

Birch 1-25	A.P.I. #
Sorenson 1-5	A.P.I. #
Sorenson 1-6	A.P.I. #
Intrepid B-2-20	A.P.I. #
Quinex Mary R. U.	A.P.I. #
North Duchesne 1-7	A.P.I. #

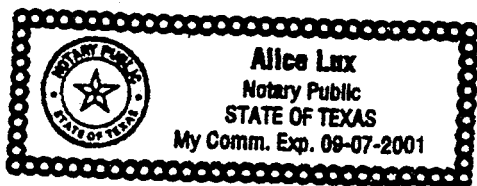
Lisha Cordola
Division of Oil, Gas & Mining
February 17, 1998
Page 2

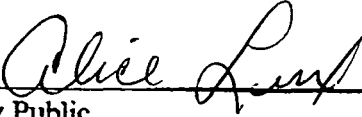


John R. Pinder, President
Road Runner Oil, Inc.
Road Runner Operating Co., Inc.

STATE OF Texas)
COUNTY OF Harris) ss:

SUBSCRIBED AND SWORN to before me this 18 day of February, 1998.





Notary Public
Residing in: Harris County

My commission expires:

9-7-2001

LISHA =
Sundry Notices will be
filed when I return to
UTAH next week.

~~Carter~~ #4
HOUSTON
PETERSON
LEETON

ROOSEVELT UNIT WELLS

SECTIONS 13, 14, 23, 24 T1S, R1W, UINAH County, UTAH
SECTIONS 17, 18, 19, 20, 21, 27, 28, 29, T1S, R1E UINAH County, UTAH

Richardson -

UNIT WELL	API NUMBER	OPERATOR
R.U. MARY	R.U. 278	QUINEX
R.U. 1	43-047-15550	GAVILAN
R.U. 2	43-047-15551	GAVILAN
R.U. 3	43-047-15552	GAVILAN
R.U. 4	43-047-15549	GAVILAN
R.U. 9	43-047-31384	GAVILAN
R.U. 10	43-047-31429	GAVILAN
R.U. 11	43-047-31428	GAVILAN
R.U. 12 GR	43-047-31427	GAVILAN
R.U. 13	43-047-31414	GAVILAN
R.U. 15 AIE	43-047-31696	GAVILAN
R.U. 18 AIE	43-047-31687	GAVILAN
R.U. POST 1-19	43-047-30802	GAVILAN
R.U. 20-2	43-047-31422	GAVILAN
R.U. B2	43-047-31187	INTREPID
R.U. 5	43-047-31447	RICHARDSON
R.U. 6W	43-047-31368	RICHARDSON
R.U. A-7	43-047-31402	RICHARDSON
R.U. 9W	43-047-31445	RICHARDSON
R.U. 10W	43-047-31446	RICHARDSON
R.U. C-11	43-047-31500	RICHARDSON

Including all
Indian Leases and
Allotted Interests
Therein.
Attachment of the
Indian Leases will
be filed as exhibits
after approvals.

GREAT WESTERN Energy Co. (GWECO) & AMTECH
BIRCH 1-25
Sorenson 1-5
Sorenson 1-6
North Duchesne 1-7
Post 1-19
(HOUSTON (Roosevelt Unit))
(LEETON (Roosevelt Unit))

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File BIRCH 1-25
PAIUTE WALKER 167
(Loc.) Sec 25&1 Twp 1&3S Rng 5W
(API No.) 43-013-30285
43-013-30914

☐ Suspense

☐ Other

(Return Date) _____

(To-Initials) _____

1. Date of Phone Call: 3-4-98 Time: 2:19

2. DOGM Employee (name) L. CORDOVA (☒ Initiated Call)

Talked to:

Name STEVE HILL (☐ Initiated Call) - Phone No. (309) 458-3360

of (Company/Organization) AMTECH ENERGY INC.

3. Topic of Conversation: OPERATOR CHANGE TO ROAD RUNNER OIL, INC.

4. Highlights of Conversation: _____

MSG LEFT - REQ. RESIGNATION OF OPERATOR

** 4:14 Mr. Hill will fax asap!*

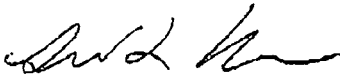
March 4, 1998

To: Division of Oil, Gas, and Mining - Attention Lisha Cordova

Re: Paiute Walker 1-7 and Birch 1-25 wells

To Whom it may concern:

Effective as of February 17, 1998 Amtech Energy, Inc. does hereby resign as operator of the above referenced oil wells and recognizes Road Runner Oil as the successor operator.



Amtech Energy, Inc.

By Steven L. Hill, President



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

March 4, 1998

John Pinder
Road Runner Oil, Inc.
P. O. Box 409
Duchesne, Utah 84021

Re: Notification of Sale or Transfer of Fee Lease Interest

Dear Mr. Pinder:

The Division has received notification of a change of operator from Amtech Energy Inc. to Road Runner Oil, Inc. for the following wells which are located on fee leases:

<u>Well Name</u>	<u>Sec.-T.-R.</u>	<u>API Number</u>
Birch 1-25	25-01S-05W	43-013-30285
Paiute Walker 1-7	01-03S-05W	43-013-30914

Utah Administrative Rule R649-2-10 states; the owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

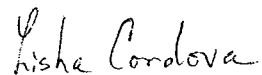
This letter is written to advise Road Runner Oil, Inc. of its responsibility to notify all individuals with an interest in the lease (royalty interest and working interest) of the change of operator. Please provide written documentation of this notification to:

Utah Royalty Owners Association
Box 1292
Roosevelt, Utah 84066

Page 2
Road Runner Oil, Inc.
Notification of Sale
March 4, 1998

Your assistance in this matter is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Cordova".

Lisha Cordova
Admin. Analyst, Oil & Gas

cc: Amtech Energy Inc., Steve Hill
Utah Royalty Owners Association, Stephen Evans
John R. Baza, Associate Director
Operator File(s)

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.

Initial each listed item when completed. Write N/A if item is not applicable.

1-DATE	6-FILE
2-GLH	7-KAS
3-DES	8-SI
4-VLD	9-FILE
5-JBB	

☒ Change of Operator (well sold)☐ Designation of Agent☐ Designation of Operator☐ Operator Name Change OnlyThe operator of the well(s) listed below has changed, effective: 2-17-98

TO: (new operator) ROAD RUNNER OIL, INC.
 (address) PO BOX 409
DUCHESNE UT 84021
JOHN PINDER
 Phone: (435) 548-2343
 Account no. N7575

FROM: (old operator) AMTECH ENERGY INC
 (address) 305 E MAIN ST
PLYMOUTH IL 62367-1016
STEVE HILL
 Phone: (309) 458-3360
 Account no. N9210

WELL(S) attach additional page if needed:

Name: <u>BIRCH 1-25/GR-WS</u>	API: <u>43-013-30285</u>	Entity: <u>9050</u>	S	<u>25</u>	T	<u>1S</u>	R	<u>5W</u>	Lease: <u>FEE</u>
Name: <u>PAIUTE WALKER 1-7/GRWS</u>	API: <u>43-013-30914</u>	Entity: <u>9825</u>	S	<u>1</u>	T	<u>3S</u>	R	<u>5W</u>	Lease: <u>FEE</u>
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____
Name: _____	API: _____	Entity: _____	S	_____	T	_____	R	_____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- Yes 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Reg. 3-4-98) (Rec'd 3-4-98)
- Yes 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 2-24-98)
- Yes 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) ____ If yes, show company file number: #198941. (Eff. 3-24-97)
- NA 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.
- Yes 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (3-4-98)
- Yes 6. **Cardex** file has been updated for each well listed above. (3-4-98)
- Yes 7. Well **file labels** have been updated for each well listed above. (3-4-98)
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (3-4-98)
- Yes 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- LC 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A LC 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY) 80,000 Surety #574338 "Gulf Ins. Co." eff. 2-17-98.

- LC 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond. (attached)
- LC 2. A **copy of this form** has been placed in the new and former operator's bond files.
- LC 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ____, as of today's date March 4, 1998. If yes, division response was made to this request by letter dated ____.
- * Birch 1-25 previously unbonded. Attempts were made to secure bond coverage.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A LC 1. Copies of documents have been sent on ____ to ____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- LC 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated March 4, 1998, of their responsibility to notify all interest owners of this change.

FILMING

- LC 1. All attachments to this form have been **microfilmed**. Today's date: 3.20.98.

FILING

- ____ 1. **Copies** of all attachments to this form have been filed in each **well file**.
- ____ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR Roadrunner Oil and Gas, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: CITY / STATE / ZIP PO Box 1329; Roosevelt, Utah 84060		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (435) 722-2992		8. WELL NAME and NUMBER: Birch 1-25
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER: 43-013-30285
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE, Section 25, Township 1 South, Range 5 West, USM		10. FIELD AND POOL, OR WILDCAT: 55 Altamont
		COUNTY: Duchesne
		STATE: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
Approximate date work will start:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
Date of work completion:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
February 2, 2004	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Plug and Abandon as listed on attached exhibit. Note: Mountain Oil and Gas Inc. is the contractor for Roadrunner Oil.

COPY SENT TO OPERATOR
Date: 2-13-04
Initials: CHD

NAME (PLEASE PRINT) Robert Pinder TITLE VP Roadrunner
SIGNATURE [Signature] DATE Feb. 2, 2004

(This space for State use only)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 2/12/2004
BY: [Signature]

* With Conditions of Approval (attached)

RECEIVED

FEB 10 2004

DIV. OF OIL, GAS & MINING

PLUG AND ABANDON RECOMMENDED PROCEDURE

Birch #1-25 NWNE Sec.25, 2S, R5W

API #: 43-013-30285

Duchesne County, Utah

January 29, 2004

WELL DATA:

DEPTH:

TD: 16,325 ft PBD: Shoe @ 15,825ft w/perforated nipple above shoe Note: Casing collapse and tubing shot off at approximately 11,000 ft.

ELEVATIONS:

GL: 6877 ft KB:6887 ft

CASING:

9 5/8", 36# K55 @ 3012 ft

7 5/8" 26.4#, 29.7#, 33.7# S-95@ 12,745' ft

5 1/2" 22.54# P-110 @ 15,825 ft TOL @ 12,433 ft

TUBING:

2 7/8" 6.5# N-80 tubing with pkr set @ 11,106'

Note Production liner uncemented

PERFORATION and STIMULATION CHRONOLOGY:

Perforations	Zone
13,500'-14502'	Wasatch

RECEIVED

FEB 06 2004

RECOMMENDED PROCEDURE:

DIV. OF OIL, GAS & MINING

NOTE: All water used to displace cmt and placed between plugs should contain corrosion inhibitor and should be 8.8 ppg to 9.2 ppg brine.

NOTE: All cmt pumped will be as follows: 10 bbls fresh wtr ahead, cmt, 10 bbls fresh wtr behind and brine for displacement.

1. Insure regulatory agencies are given proper notification prior to PXA.

2. MIRU workover unit. ND wellhead and NU BOPs. POOH 2 7/8" tbg and stand back tbg. LD BHA. Pmp 200 deg F brine as needed while POOH with tbg & BHA. Tally out of hole for total tubing tally.
3. PU & RIH w/ 5 7/8" bit & 7 5/8" csg scraper to top of fish, tag @ +/- 11,000' (_____ ft.) POOH & LD bit & scraper.
4. RIH w/ 7 5/8" CICR on 2 7/8" tbg and set @ 50' above top of fish @ (_____ ft.) Spot 100' Class G through tbg below CICR and 50' above CIRP. POOH 10 jts tbg and reverse circulate tbg clean w/ brine. TOC @ +/- (_____ ft.)
5. Pump 9# brine w/ corrosion inhibitor to fill hole.
6. POOH w/ tbg, standing back +/- 4000', laying down tbg as needed.
7. MIRU WL. RIH and shoot 4 squeeze @ +/- 8000' POOH and RD WL. PU & RIH w/ 7 5/8" CICR on 2 7/8" tbg & set @ 7950 ft. Establish minimum injection rate of 1/2 BPM into sqz holes. Mix 50 sks Class G cmt, pumping 35 sks through CICR and spotting remaining 15 sks on top. POOH 10 jts tbg and reverse circulate clean w/ brine. TOC @ +/- 7900'.
8. POOH standing back +/- 4000' ft, laying down tbg as needed.
9. PU & RIH 7 5/8" CICR on 2 7/8" tbg & set @ 3000' ft. pumping 35 sks through CICR & spotting remaining 15 sks on top of CICR. Pull up hole 10 jts and reverse circulate clean w/ brine. TOC @ +/- 2850' ft.
10. POOH w/ tbg, laying down tbg.
11. RIH to 100 ft w/ 1" tbg. Mix & pump 25 sks Class G + 2% CaCl₂ (in mix wtr) into 7 5/8" csg to surface. POOH. Remove wellhead and run into 7" X 9 5/8" annulus w/ 1" tbg to 100 ft. Fill annulus w/ 20 sx Class G + 2% CaCl₂ (in mix wtr) to surface. Fill conductor casing annulus w/ cmt to surface if needed. WOC 2 hrs.
12. Cut off all casing strings 3 ft below ground level. Install dry hole marker. RDMO workover unit.
13. Restore location per requirements in APD, oil & gas agreement and / or surface agreement.

Approvals:

Engineering Manager _____ **Date** _____

Technical Director _____



State of Utah

Department of
Natural Resources

Division of
Oil, Gas & Mining

ROBERT L. MORGAN
Executive Director

LOWELL P. BRAXTON
Division Director

MICHAEL O. LEAVITT
Governor

OLENE S. WALKER
Lieutenant Governor

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number: Birch 1-25
API Number: 43-013-30285
Operator: Road Runner Oil Inc.
Reference Document: Original Sundry Notice dated February 2, 2004,
received by DOGM on February 10, 2004

Approval Conditions:

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.
2. Plug 1 (procedural step 4) should be amended to squeeze ± 100 sx below the CICR to ensure an effective seal of the collapsed casing and fish and to ensure isolation of the Wasatch formation.
3. A plug shall be added across the base of the moderately saline groundwater from $\pm 4550'$ to $4450'$. Use procedural step 7 (Sqz holes @ $4550'$, CICR @ $4500'$, 35sx below CICR, 15 sx above CICR). (ADD PLUG)
4. Note: No mention of shooting squeeze holes were mentioned in the procedures for Plug 4 (procedural step 9). Squeeze holes should be shot $\pm 50'$ below CICR setting depth.
5. All intervals between plugs shall be filled with noncorrosive fluid.
6. All annuli shall be cemented from a minimum depth of $100'$ to the surface.
7. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.
8. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.
9. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 prior to continuing with the procedure.
10. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Dustin K. Doucet
Petroleum Engineer

February 12, 2004

Date

API Well No: 43-013-30285-00-00

Permit No:

Well Name/No: BIRCH 1-25

Company Name: ROAD RUNNER OIL INC

Location: Sec: 25 T: 1S R: 5W Spot: SWNE

Coordinates: X: 551534 Y: 4468712

Field Name: ALTAMONT

County Name: DUCHESNE

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacities (+1/c4)
HOL1	130	17.25			
COND	130	13.375	48	130	
HOL2	3012	12.25			
SURF	3012	9.625	36	3012	
HOL3	12745	8.75			
II	12745	7.625	26.4	12745	3775
II	12745	7.625	29.7		3879
II	12745	7.625	33.7		4006
HOL4	16325	6			
LI	15825	5.5	22.5	3392	8407

Plug 5

Surface Plug

100' Cement from 130 ft. $3775 \times (1.18)(25) = 111'$

Hole: 17.25 in. @ 130 ft.

Annulus

Cement from 3012 ft. to surface $(205 \times) (1.18)(8.550) = 202'$

Conductor: 13.375 in. @ 130 ft.

Hole: 12.25 in. @ 3012 ft.

Cement from 12745 ft.

Plug 4

Surface: 9.625 in. @ 3012 ft.

Below

50' = 115x

Add 29x holes

Annulus

38' / (1.18)(3519) = 105x

62' / (1.18)(8.550) = 7x

285x

Above

50' = 115x

(57x)(1.18)(3775) = 67'

Plug 2

Below

50' / (1.18)(3775) = 145x

Annulus

100' / (1.18)(3519) = 242x

385x

Above

(155x)(1.18)(3775) = 67'

Plug 1

Below

100' / (1.18)(3775) = 255x

Change to 1005x

1500' 11520'

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	130		UK	200
II	12745		PC	440
II	12745		PL	200
II	12745		G	100
SURF	3012	0	PC	300
SURF	3012	0	PL	250
SURF	3012	0	G	350

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
13863	15790			

Formation Information

Formation	Depth	Formation	Depth
GRRV	10751		
WSTC	12377		
Ground	6887		
BMSGW	± 4800		

TD: 15325 TVD:

PBSD:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED
AUG 10 2004

FORM 9

DIV. OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR Mountain Oil and Gas, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: CITY / STATE / ZIP PO Box 1574; Roosevelt, Utah 84066		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (435) 722-2992		8. WELL NAME and NUMBER: Birch 1-25
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER: 43-013-30285
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE, Section 25, Township 1 South, Range 5 West, USM		10. FIELD AND POOL, OR WILDCAT: 55 Altamont
		COUNTY: Duchesne
		STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>August 3, 2004</u>	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: _____
	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Because of a tight spot encountered during P&A operations on the Birch 1-25 permission was asked for and obtained from Dustin Doucet (verbal) to alter the plugging depth. The new depth applied for and approved was to shoot holes @ 6850' and set the plug @ 6800.

NAME (PLEASE PRINT)

Robert Ballou

TITLE Geologist

SIGNATURE

Robert Ballou

DATE August 3, 2004

(This space for State use only)

Verbal given to alter setting depth of this one plug DED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR Mountain Oil and Gas, Inc.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: CITY / STATE / ZIP PO Box 1574; Roosevelt, Utah 84066	7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE:	8. WELL NAME and NUMBER: Birch 1-25
5. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE, Section 25, Township 1 South, Range 5 West, USM	9. API NUMBER: 43-013-30285
6. PHONE NUMBER: (435) 573-5955	10. FIELD AND POOL, OR WILDCAT: 55 Altamont

COUNTY:
Duchesne

STATE:
Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: August 25, 2004	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: _____
		<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached please find the Recap procedure for Birch P&A including ending schematic

RECEIVED

SEP 07 2004

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT)

Robert Ballou

TITLE **Geologist**

SIGNATURE

Robert Ballou By [Signature]

DATE **August 25, 2004**

(This space for State use only)

PLUG AND ABANDON PROCEDURE

Birch #1-25 NWNE Sec.25, 2S, R5W

API #: 43-013-30285

Duchesne County, Utah

August 24, 2004

Work done by personnel from Mountain Oil and Gas Inc. as subcontractor to Road Runner Oil and Gas Inc.

WELL DATA:

DEPTH: **TD: 16,325 ft** **PBTD: Shoe @ 15,825ft w/perforated nipple above shoe** **Note: Casing collapse and tubing shot off at approximately 11,000 ft.**

ELEVATIONS: **GL: 6877 ft** **KB:6887 ft**

CASING: 9 5/8", 36# K55 @ 3012 ft
7 5/8" 26.4#, 29.7#, 33.7# S-95@ 12,745' ft
5 1/2" 22.54# P-110 @ 15,825 ft TOL @ 12,433 ft

TUBING: Removed

Note Production liner uncemented

PROCEDURE:

NOTE: All water used to displace cmt and placed between plugs contained corrosion inhibitor all fluid used was 8.8 ppg to 9.2 ppg brine.

NOTE: All cmt pumped was as follows: 10 bbls fresh wtr ahead, cmt, 10 bbls fresh wtr behind and brine w/inhibitor for displacement.

1. Regulatory agencies were given proper notification prior to P&A. Dennis Ingram of DOGM was notified and was on site.
2. Set CICR 50' above top of fish @ +/- 11,000' Spot 90 sks Class G through tbg below CICR and 10 sks above (15.6# slurry).
3. Note because of tight spot in hole permission was asked for and granted to move uphole to 6,800', shoot 4 squeeze holes @ +/- 6850' Set CICR Plug @ 6800' ft. Pumped 35 sks through CICR and spotting remaining 15 sks on top. POOH 10 jts tbg and reverse circulate clean w/ brine (15.6# slurry).

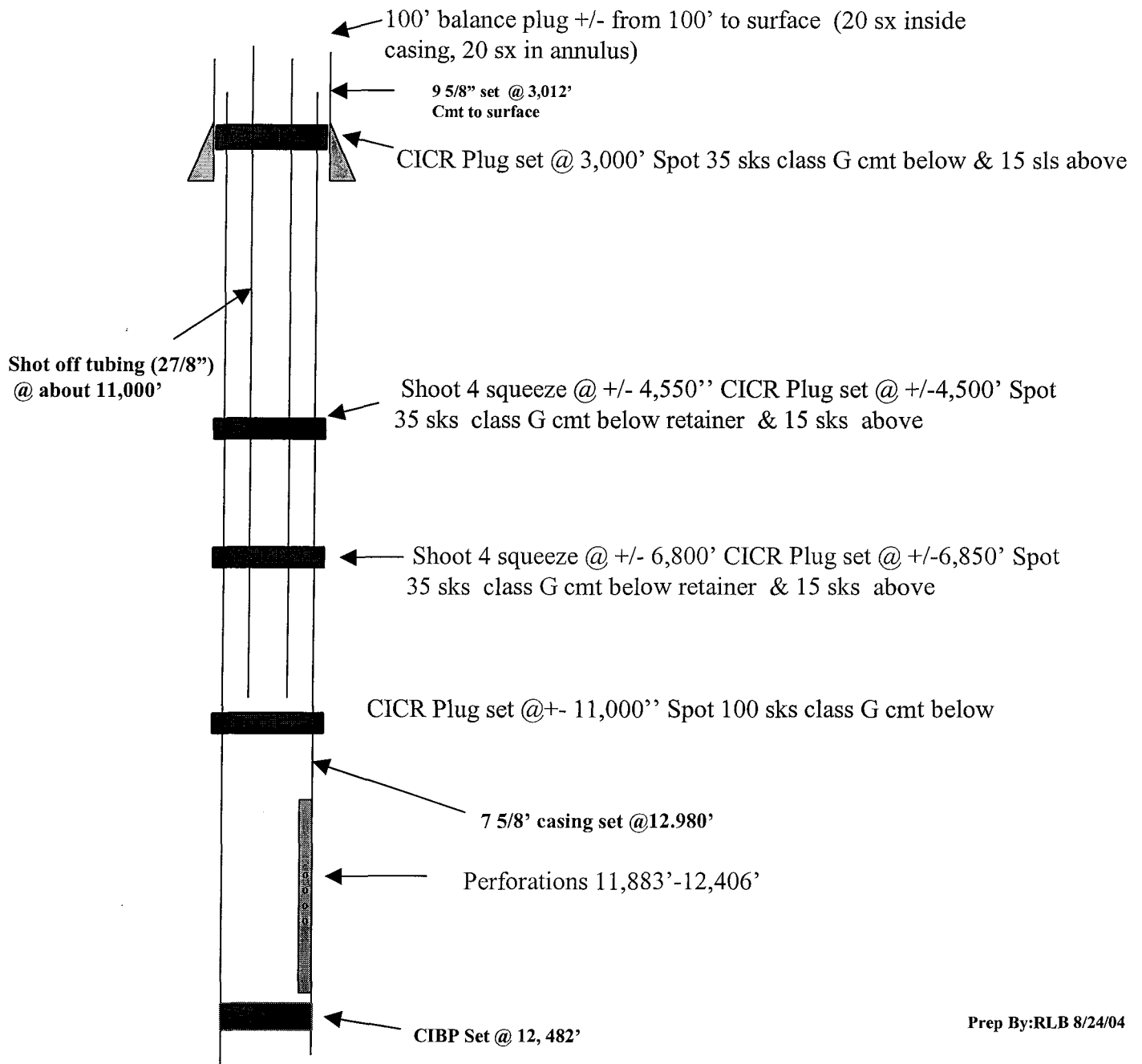
4. Shoot 4 squeeze holes @ +/- 4600' Set CICR @ 4550'. pumping 35 sks through CICR & spotting remaining 15 sks on top of CICR. Pull up hole 10 jts and reverse circulate clean w/ brine, 15.6# slurry.
5. Shoot 4 squeeze holes @ +/- 3050' Set CICR @ 3000'. pumping 35 sks through CICR & spotting remaining 15 sks on top of CICR. Pull up hole 10 jts and reverse circulate clean w/ brine, 15.6# slurry.
6. Cut off all csg strings 3' below ground level.
7. Run 100' tubing circulate cmt to surface w/ 15.6# slurry from 100' to surface (approximately 20 sx inside casing and 20 sx in annulus).
8. Install dry hole marker.
9. Restore location per requirements in APD, oil & gas agreement and / or surface agreement.

Robert Ballou
Geologist MOG

Updated:

Aug 24, 2004

**Mountain Oil and
Gas Inc.
Birch 1-25 P&A
Well Diagram**



Prep By:RLB 8/24/04

BIRCH 1-25 A5 "GREAT WESTERN ENERGY"
 TOIS R05W S-25 3/20/87
 43-013-30285

TUBING Capacity 54.2
 CASING Capacity 426.0
 TOTAL Capacity 480.2

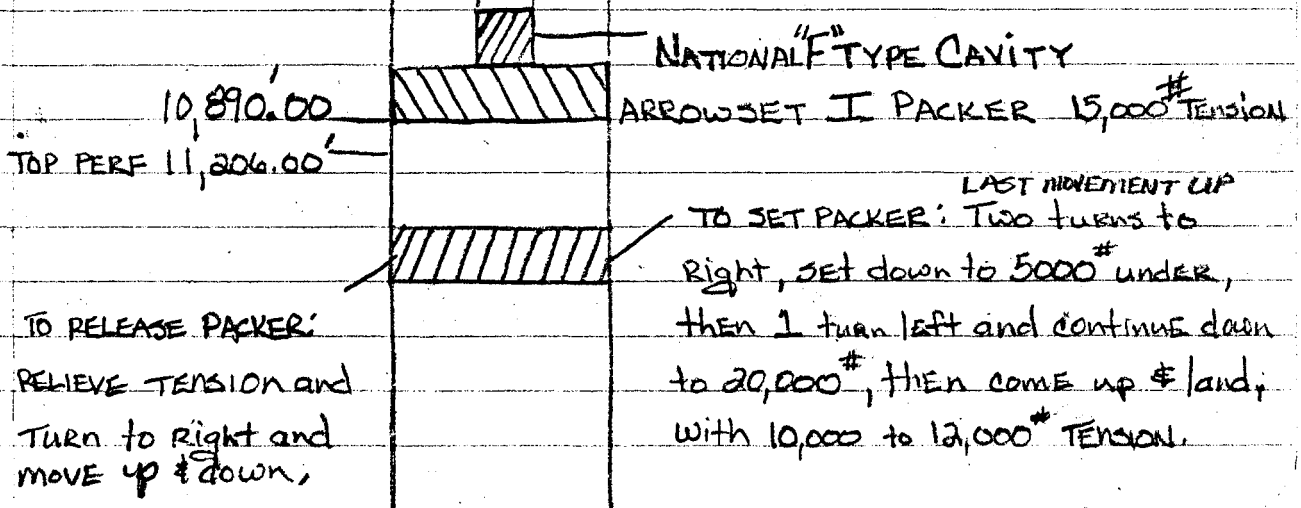
— 7⁵/₈ O.D. CASING 29[#]

— C.S. HYDRIL 2⁷/₈" 6.5[#]

171 STANDS, 1 single

— PATCH HOLE @ 5466' APPROX.

— 7⁵/₈ CASING 26[#]



Birch 1-25 Rework

T OLS R 05W 525
43-013-30285

- 12/26/86 Contact Rig for Move-in on 12/ 29/86, also trailer for location. Make arrangements for Mill and over-shot to clean out well bore to 16,325'.
- 12/29/86 Move in Rig and trailer Rig up work-over Rig and take well head off. Install BOP's, shut down for night, have a string of 1.90" tubing in well head.
- 12/30/86 Rig up to lay down 1.90" tubing, 200 Jts. approx. 4,280' haul to yard. Rig up to pull 2 7/8" tubing and packer and cellar started to cave in. Shut down for the night as wind was too strong to lay down derrick.
- 12/31/86 Lay down derrick and rebuild matting boards for rig. Raise derrick and try to release packer, pull up to 90,000 packer not released, work pipe, packer not loose.
- 1/07/87 Rig up hot oil truck at 7:00 am. pump 300 bbls. hot water down 2 7/8" tubing, Pipe free at 2:30 pm. Lay down 1 Jts. of 2 7/8" tubing hot oil with 50 bbls. hot water down 2 7/8" tubing. Start out of hole 3:30 pm. Pulled 40 stds. and single 2626.78' of tubing SDFN at 5:20 pm.
- 1/08/87 7:30 am Start pulling pipe, 150 # psi on backside of casing. Pulled a total of 190 stds. and one single, a total of 12,356.98' of 2 7/8" cs hydroil tubing. Start back in hole at 3:30 pm to hot oil well. Layed down packer and BH assembly. Sent packer to Mountain States for repair. Run in hole open-ended to approximately 7100' SDFN 5:15 pm.
- 1/09/87 Start in hole from 7100' to 12,323' in hole at 10:15 am string weight 62,000 lbs. 190 stds. of CS hydroil 2 7/8" tubing, prepare to put on well head. Remove BOP's and install well head. Lay down derrick and rig down rig. Drained water from Frac tank. Load out blowout preventers and skids and haul to Gibson's Vernal yard.

Birch 1-25 Rework

- 1/23/87 Move in and rig up Hodco Rig #51, take off well head and install BOP's.
- 1/26/87 Rig up and hot oil well with B&M Hot Oiler, circulated 160 bbls oil into frac tank, start out of hole with 2 7/8 tubing, pulled 177 stds. SDFN
- 1/27/87 Waiting on Logging truck.
- 1/28/87 Hot oil w/50 bbls, finish trip out of hole w/tubing, rig up Dresser-Atlas to log.
- 1/29/87 24 hours logging.
- 1/30/87 Pick up overshot and start in hole to clean out well.
- 1/31/87 Picking up pipe, hit fill @ 14,800'. Rig up pump and tanks to circulate out fill.
- 2/01/87 Off
- 2/02/87 Rig up power swivel to wash & ream fill to fish, picking up pipe, losing partial returns, returns pumping 5 bbls per min. and returns are only 2 bbls per min. Unable to catch fish, start out of hole with washover shoe and 2 7/8" tubing. SDFN
- 2/03/87 Coming out of hole, tubing plugged with oil, oil blowing over crown of rig about every third stand, try to pump down tubing to kill well, went to 3500# psi unable to pump plug down hole. Will pull pipe to 6500' + or - and SDFN
- 2/04/87 Go into Salt Lake City and discuss further operations with Great Western Energy Co. about Birch 1-25. Talk over setting Bridge plug and the advantages of doing so.
- 2/05/87 Hot oil well to run Bridge plug, finish trip out of hole, Rig up Dresser-Atlas to run Bridge plug, start in hole at 12:15 pm had to pump Bridge plug down from 1250' to 4700' plug set at 2:35 pm on 2/05/87 plug set @ 12,482' Drillable Plug. Pick up first perforating gun at 3:20 pm perfs @ 12,406, 12,377, 12,372, 12,348, 12,295, 12,269, 12,104, 12,100, 12,084, 12,076, 12,070, 12,048, 12,043, 12,024, 12,017, 11,922, 11,916, 11,905½, 11,899, 11,891 & 11,883. Perfed 12,206, gun has a short, trip out with gun. Made another run, gun would not shoot. Come out of hole and SDFN. *Please note: All perfs are off "Spectralog".
- 2/06/87 Trip in @-8:00 am, shoot gun, appears guns shot, trip out and find that only ten guns shot, 12,377, 12,372, 12,348, 12,295, 12,269, 12,104, 12,100, 12,084, 12,076 & 12,070 shot, the rest misfired. 9:35 am trip in with perf gun, 3 guns misfired in wrong interval when we got of hole with gun, rig down Dresser-Atlas. Run 2 7/8 tubing in hole to circulate oil out of hole. Shut down until Monday.

Birch 1-25 Rework

- 2/09/87 Hot oil with 100 bbls, come out of hole laying down excess tubing. Go in hole with perforating gun, all guns fired, out of hole @ 12:40 pm. Start in hole w/packer @ 1:25 pm on bottom @ 6:00 pm, set packer 11,106' SDFN.
- 2/10/87 Rig up to swab, test backside to 500#, pressure bled off, pressure up to 500# and pressure bled off again. Rig up hot oil truck and pump 50 bbls hot water down tubing, went to 2500# and packer held okay, start swabbing about 1200 noon.
- 2/11/87 Tubing press am e# 11,106.32 = 173 stds. + 1 joint
Released packer @ 10:00 am, pulled 40 stds., reset packer @ 8637', press up back side to 500# and bled off, pulled 35 stds. more and pumped 35 bbls down tubing to kill, reset packer @ 6534' and press up back side and bled off again. 2:00 pm pulled 54 stds. packer @ 2895', press up back side to 700# and held perfectly. Hole in casing between 6535' & 2900'. 3:30 pm come out of hole and SDFN.
- 2/12/87 Rig up Dia-log to find hole in casing, unable to get below 650'. Rig up Hot oiler and pump Dia-log down to 5590', unable to pump Dia-Log any deeper, hole is between 5551 and 5590, pick up Bridge plug & packer and start in hole. Bridge plug & packer would not go in hole because of cold oil in hole. SDFN.
- 2/13/87 Hot oil well with 100 bbls formation water, run in hole with Bridge plug and packer and test plug to 700#, held good, test back side, leak above us, Bridge plug @ 5727 RKB. Pull packer up to 5336' RKB and tested okay. Pump 4 sacks of sand down on top of plug. Prepare to mix 100 sacks of cement and squeeze hole in casing at 12:45 pm. Mix and pump 100 sacks of cement at 2 bbls a min. and pump $\frac{1}{2}$ bbl, check for back flow, no back flow. RIg down Halliburton, pull 2 stds. of tubing and shut well in for weekend. Weight of cement used for squeeze was 16.4 lbs. per gallon.
- 2/14/87 Work on tank #3 to use as an oil tank.
- 2/15/87 Work on tank #3 to use as an oil tank.
- 2/16/87 Start out of hole with packer, lay down packer, pick up 6 1/8 bit with change over to get to 2 7/8" Hydril thread. Run in and tag cement at 5336'.
- 2/17/87 Rig up power swivel to drill cement out of casing. Tag top of cement at 5366' drilled down to 5488', hole in pipe is at 5466' tested to 500# psi bled off to 200# psi tested 3 times, each time pressure bled off to 200# trip out with tubing and bit, pick up packer & SDFN.

Birch 1-25 Rework

- 2/18/87 Start in hole with packer, got 6 stds. in and packer keeps setting, trip out with packer, run new packer in to squeeze hole in pipe. Pump 10 bbls fresh water, then pump 9½ bbls 16.4 lbs cement and 32 bbls formation water for squeeze held 500# against cement, check for flow back, unable to stop flow back, staged 5 times, each time well flowed back cement, pump 5 bbls to clean hole, will squeeze tomorrow, SDFN.
- 2/19/87 Thaw out well head and pump, 10 bbls fresh water, 9½ bbls of 16.4 lb cement and 32 bbls formation water, squeeze hole in pipe to 825#, check for flow back, no flow back, rig down Halliburton and pull 2 stds. and put 500# on tubing and shut down until 2/21/87.
- 2/20/87 Travel to Salt Lake City to Rocky Mountain Petroleum to review well and discuss working over the Sorensen 1-6.
- 2/21/87 Trip out of hole with packer and 2 7/8" tubing, pick up 6 1/8" bit and casing scraper and trip in hole, tagged cement stringers 5339' drill hard cement @ 5384' and drilled cement to 5500' tested squeeze job 650# held good.
- 2/22/87 Picked up 32.5' tubing and drilled 16' more hard cement fill through, picked up pipe and tagged Bridge plug at 5731', plug was set @ 5727', trip out of hole with bit, run back in hole to retrieve bridge plug. Left tubing hanging @ 5723' SDFN.
- 2/23/87 Pick up Bridge plug, found plug 30' below where plug was set, trip out with Bridge plug, the top rubber was gone when we got out of the hole. Pick up production packer and Bottom hole assembly with blanking sleeve in place in place and start in hole. SDFN. Place cement in tank #3, tank ready for production.
- 2/24/87 Resume going in hole with production equipment, unable to get packer to set. SDFN.
- 2/25/87 Got packer to set, packer set @ 11,074' RKB with 15,000# tension, put on wellhead, test blanking sleeve, will not hold pressure, pump down 2 wax plugs, pressured up to 1200# and pressure fell off and blanking sleeve still doesn't hold. SDFN.

BIRCH 1-25

- 3-5-87 Travel to location and get oil sample to take to Keystone for analysis. Pump down to plug, BHA won't hold.
- 3-6-87 Take off well head and put BOP'S back on and trip out of hole, found blanking sleeve in a change over above BHA. Packer looks okay. start back in hole.
- 3-7-87 Got back on bottom, packer sets okay. BHA still leaking. Halliburton on location with acid, pump plugs down to BHA and still won't seal. Reset packer, BHA still leaking. Trip out of hole.
- 3-8-87 Finish trip out of hole, changed out BHA and start trip back in hole. Packer going very slow because of oil in hole, pump down hole w/ hot water, still going in very slow.
- 3-9-87 Finish trip in hole, tested tubing and the back side, everything holding pressure. Rig up Halliburton to acidize well, test surface lines to 4000#, held, pump 5 bbls formation water and 10 bbls acid and started circulating again, shut down Halliburton. Took off well head and tried to reset packer, will not set, layed down one ft. of tubing and tried to reset packer, will not set. Start out of hole.
- 3-10-87 Tried to reset packer @ 8000', will not set, finish trip out of hole, found that 3 bottom jts. of tubing are corkscrewed, lay down 3 jts. of tubing and send packer in to Mt. States to redress. Run 20 stds. of kill string in well, still having trouble with cold oil.
- 3-11-87 Circulate well with 100 bbls hot water, pull kill string and put on packer and BHA and start packer in hole. Landed packer @ 10,977' set with 12,000# tension on packer dropped blanking sleeve, hooked up Halliburton to acidize with 2000 gallons 15% HCL acid, pumped acid in @ 3.2 bbls per minute @3200 PSI, good ball action while acidizing well. Instant shut down on pressure 2500# in 5 minutes pressure was Zero.
- 3-12-87 Prepare to swab well, swab would not go as oil was at surface and it was set up. Call hot oil in so we can swab well, hot oiled with 40 bbls hot water, started swabbing, swabbed 30 bbls water and then well fluid turned to oil and gas. Rig down because someone has stolen diesel fuel from Rig. Got Rig started again and swabbed until we could not get swab down. Fluid level in well stayed at 500' from surface. In six hours we recovered 30 bbls water and 78.5 bbls of oil.
- 3-13-87 Started swabbing well and working on surface equipment, in 9 hours swabbed 308 bbls total fluid.
- 3-14-87 Rig down Hodco rig, and working on surface equipment.

BIRCH 1-25

- 3-15-87 Rig up Bright's swabbing unit to pull blanking sleeve from BHA. Have treater and line heater working, will circulate well all night long and prepare to drop pump sometime Monday afternoon, and put well on production.
- 3-16-87 Will pick up National Production Systems pump today and put well on production today.
- 3-17-87 Dropped pump, put on line. Producing mostly water. We lost 320 barrels of water while circulating. Pumped 115 barrels of water.
- 3-18-87 Pumped 106 barrels of water with some oil, will continue to pump until we get back the water we lost.
- 3-19-87 Pumped 102 barrels of water, some oil.
- 3-20-87 Pumped 97 barrels of water, still very little oil.
- 3-23-87 Still getting mostly water. Will have to run tests to determine where water is coming from. Shut down to evaluate.
- 3-24-87 Need to run temperature survey to find where water is coming from. Over budget, need to raise more money to continue.
- 5-13-87 Triplex motor to Boren Electric to repair.
- 5-15-87 Schedule temperature survey for 19 May.
- 5-18-87 Install triplex motor and repair wiring and controls.
- 5-19-87 Western Atlas run temperature survey.
- 5-25-87 Received temperature survey logs from Western Atlas, analyse survey, water communicating through fracture with perforations at 11900 feet. Will need to squeeze. Shut down to raise additional money for squeeze job.

BIRCH 1-25

08/05/87 Spot and rig-up rig. N.D. W.H. unset packer
N.U. B.O.P.'s rig up floor. Close in well.
2:00, S.D.F.N. Wait on orders.

08/10/87 R.U. swab. Try to swab. Wouldn't go. R.D.
swab P.O.O.H. w/174 stds. tbg. Set packer,
try to pressure test. Didn't test. Close in
well. 6:00, S.D.F.N.

08/11/87 P.O.O.H. w/166 stds. tbg., pump cavity, packer
clean out flat tank. Close in well. 2:30,
S.D.F.N.

08/13/87 P.U. + R.I.H. w/packer, pump cavity, 192 stds.
tbg. Set packer @ 6000'. Close in well.
2:00, S.D.F.N.

08/14/87 Hook up to pressure test. Wouldn't hold.
P.O.O.H. w/22 stds. tbg. Reset packer to test,
wouldn't test. Packer at approx. 5300'. Fix
triplex pump. Close in well. 5:00, S.D.F.N.

08/15/87 Test casing, didn't hold. P.U. to set packer @
4000'. Test didn't hold. P.O.O.H. w/44 jts.
tbg. set packer @ 2900'. Test didn't hold.
P.O.O.H. w/92 jts. tbg., pump cavity, packer
got S.V. out of cavity. P.U. + R.I.H. w/192
jts. tbg. Set packer @ 6000'. Pumped 4 bbls.
down tubing dropped S.V. pumped 16 bbls. ran
out of water in flat tank. Hooked up to triplex.
Didn't test. Close in well. 7:30, S.D.F.N.

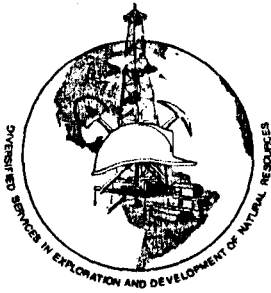
08/16/87 R.U. sinker bars. Run in and tag S.V. R.D.
sinker bars. Test casing. Didn't hold. P.O.O.H.
w/22 jts. tbg. Set packer @ 4000'. Test casing.
Didn't hold. P.O.O.H. w/44 jts. tbg. set packer
@ 2900'. Test casing. Didn't hold. Close in
well. 5:30, S.D.F.N.

08/17/87 Bleed off well. P.O.O.H. w/92 jts. tbg., pump
cavity. Packer took S.V. out of cavity R.I.H.
w/packer, pump cavity, 222 jts. tbg. Air

08/17/87 cont. from page 1---
compresser broke down. Close in well. 3:30
S.D.F.N.

08/18/87 Bleed off well. R.I.H. w/118 jts. tbg. N.D.
B.O.P.'s set packer N.U. well head. Rack out
hard line and pick up location. 2:00, S.D.F.N.

08/22/87 Rig down rig. Clean up location. 2:30, S.D.F.N.



Great Western Energy Company

G. W. E. C.

POST OFFICE BOX 1329
PARK CITY, UTAH 84060
TEL: (801) 649-2820

BIRCH 1-25 DAILY WELL PRODUCTION

Well put on production - July 14, 1987

7-14-87	Pumping 125 bbls. total fluid
7-15-87	" " 135 bbls. " "
7-16-87	" " 206 bbls. " "
7-17-87	" " 169 bbls. " "
7-18-87	" " 168 bbls. " "
7-19-87	" " 150 bbls. " "
7-20-87	" " 148 bbls. " "
7-21-87	" " 150 bbls. " "
7-22-87	Pumping 45 bbls. total fluid (Well shut down in night.)
7-23-87	Lines plugged - Hot oiled
7-24-87	Shipped 515 bbls. of oil.
7-25-87	Separator not working-repairing.
7-26-87	" "
7-27-87	Separator repaired.
7-28-87	Pump won't stroke-pumped out.
7-29-87	Repaired Pump-Put Pump in hole
7-30-87	Pump won't stroke.
7-31-87	Pulled Pump & Standing Valve, repaired, Valve stuck.
8-01-87	Put Pump in hole. Well won't circulate.
8-02-87	Well won't circulate.
8-03-87	" "

Daily production report continued.

8-04-87 Well won't circulate.

8-05-87 Rigged up for testing-couldn't get pressure test.

8-06-87 Shut in - reviewing zones and perforations.

8-07-87 Shut in - " "

8-08-87 Shut in - " "

8-09-87 Shut in - working on Triplex Pump.

8-10-87 Testing to find water leak! Couldn't get pressure test.

✓ 8-11-87 Pulled Packer and Pump cavity. Redressed Packer, Cavity bent, replaced.

8-12-87 Waiting on Packer repair.

8-13-87 Ran Packer & Cavity in hole to 6000'. Wait on water.

8-14-87 Tried testing for hole-couldn't pressure up.

8-15-87 Moved up hole-test 4000' & 2900', no pressure- pulled out of hole. Standing valve broke in half. Replaced. Ran in hole. Tested at 6000' out of water.

8-16-87 Tested 6000', 5300', 4000', 2900', no pressure. Someone has stolen seat out of Triplex-replaced!

8-17-87 Pulled out of hole-checked packer-ran in hole to 6000' Rig broke down-Fixed Rig Compressor.

8-18-87 Ran to bottom - Put on pump.

8-19-87 Pumping 120 bbls. total fluid

8-20-87 " " 90 bbls. " "

8-21-87 " " 113 bbls. " "

8-22-87 " " 110 bbls. " "

8-23-87 " " 115 bbls. " "

Daily production report continued.

8-24-87	Pumping	118 bbls.	total fluid	
8-25-87	"	"	121 bbls.	"
8-26-87	"	"	125 bbls.	"
8-27-87	"	"	130 bbls.	"
8-28-87	"	"	97 bbls.	"
8-29-87	"	"	85 bbls.	"
8-30-87	"	"	70 bbls.	"
8-31-87	Pumping	40 bbls.	total fluid.	



Great Western Energy Company

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PARK CITY, UTAH 84060
TEL: (801) 649-2820

BIRCH 1-25 DAILY WELL PRODUCTION

Well put on production July 14, 1987

9-01-87 Lost 70 bbls. water.

9-02-87 Shut in well - reviewing well.

9-03-87 " "

9-04-87 " "

9-05-87 " "

9-06-87 " "

9-07-87 Shut in well - reviewing well.

BIRCH 1-25

June 17, 1987

-Picked up new brake shoes at Salt Lake City Airport for the workover rig.

June 18, 1987

-Replaced brake shoes on rig
-Gas bled off
-BOP attached to well head

June 19, 1987

-Came out of the hole with pipe tally
-Picked up bridge plug and packer--back in the hole to 10,900+- foot level

June 20, 1987

-Added 16 stands and one 10' joint
-Set bridge plug at 11,975+- and packer at 11,786+-
-Pulled three stands and started swabbing
-Swabbed 65 barrels of water

June 22, 1987

-Swabbed 106 barrels of water

June 23, 1987

-Completed squeeze job perf--water fracture --used 100 sacks of cement
-pressured up three times
-Squeeze job held

June 24, 1987

- Came out of the hole with the packer
- Started back in the hole with changeover and drill bit to drill out cement

June 25, 1987

- Drilled out 95' +- of cement
- Circulated